

2017 • 2018

C A T A L O G

SANTA ANA COLLEGE 2017 • 2018 CATALOG



SANTA ANA COLLEGE

sac.edu



SANTA ANA COLLEGE

2017 • 2018

CATALOG

AND ANNOUNCEMENT OF COURSES

SANTA ANA COLLEGE

1530 West 17th Street • Santa Ana, CA 92706-3398 • 714-564-6000

CENTENNIAL EDUCATION CENTER

2900 West Edinger Avenue • Santa Ana, CA 92704-3902 • 714-241-5700 • sac.edu/sce

DIGITAL MEDIA CENTER

1300 South Bristol Street • Santa Ana, CA 92706-3424 • 714-241-5812 • sac.edu/dmc

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.

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SANTA ANA COLLEGE / SANTIAGO CANYON COLLEGE COLLEGE CREDIT INSTRUCTIONAL CALENDAR

COLLEGE CREDIT CLASSES INSTRUCTIONAL CALENDAR 2017-2018 FALL SEMESTER 2017

August 21–23	Faculty Projects
August 24–25	Common College Flex Days
August 28	INSTRUCTION BEGINS
September 4	Labor Day – holiday
September 10	Last day to add and to drop full-term classes without “W” grade with enrollment fee refund
September 15	Deadline for Graduation Petition for Associate Degrees for Transfer (ADT) - only for eVerify
September 29	Last date to file Pass/No Pass (semester-length courses)
October 13	Deadline for Degree/Certificate/Certification Petitions
November 10	Veterans Day – holiday
November 19	Last day to drop semester-length classes with a “W” grade
November 23–25	Thanksgiving – holiday
December 17	INSTRUCTION ENDS
December 18–January 1, 2018	Holiday break

INTERSESSION 2018

January 2	INSTRUCTION BEGINS
January 9	Last day to file Pass/No Pass
January 15	Martin Luther King’s Birthday – holiday
January 28	INSTRUCTION ENDS

SPRING SEMESTER 2018

February 29–31	Faculty Projects
February 1–2	Common College Flex Days
February 5	INSTRUCTION BEGINS
February 9	Deadline for Graduation Petition for Associate Degrees for Transfer (ADT) - only for eVerify
February 16	Lincoln’s Birthday – holiday
February 18	Last day to add and to drop full-term classes without “W” grade with enrollment fee refund
February 19	President’s Day – holiday
March 9	Last date to file Pass/No Pass (semester-length courses)
March 9	Deadline for Degree/Certificate/Certification Petitions
March 30	Cesar Chavez Day (observed)
April 2–7	Spring recess
May 6	Last day to drop semester-length classes with “W” grade
May 28	Memorial Day – holiday
May 31	Commencement – Santa Ana College
June 1	Commencement – Santiago Canyon College
June 3	INSTRUCTION ENDS

SUMMER SESSION 2018

June 18	INSTRUCTION BEGINS
June 28	Deadline for Graduation Petition
July 4	Independence Day – holiday
August 12	INSTRUCTION ENDS

JUNE • 2017

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JULY • 2017

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SEPTEMBER • 2017

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OCTOBER • 2017

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NOVEMBER • 2017

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MARCH • 2018

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JUNE • 2018

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JULY • 2018

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SANTA ANA COLLEGE PHILOSOPHY AND MISSION RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

SANTA ANA COLLEGE MISSION STATEMENT

The mission of Santa Ana College is to be a leader and partner in meeting the intellectual, cultural, technological and workforce development needs of our diverse community. Santa Ana College provides access and equity in a dynamic learning environment that prepares students for transfer, careers and lifelong intellectual pursuits in a global community.

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

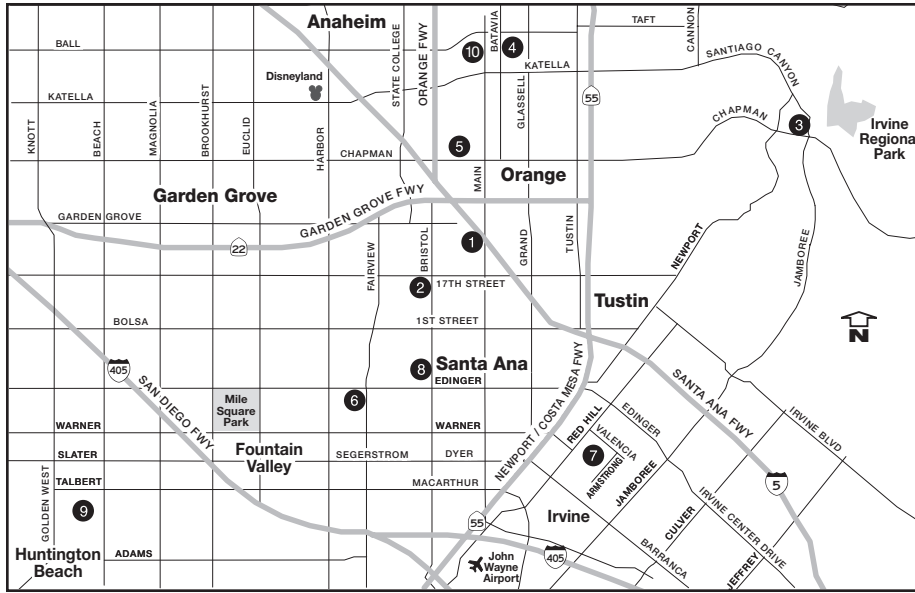
Students will develop the knowledge and skills necessary to select and develop careers.

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. American Psychological Association (APA): for Doctoral Internship Program
2. Automotive Technology: National Automotive Technicians Education Foundation (NATEF)
3. Emergency Medical Technician: Orange County Emergency Medical Services (OCEMS)
4. International Business: National Association of Small Business International Trade Educators (NASBITE)
5. Occupational Therapy Assistant: Accreditation Council for Occupational Therapy Education (ACOTE)
6. Paralegal Studies: American Bar Association (ABA)
7. Pharmacy Technology: American Society of Health-System Pharmacists (ASHP)



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

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.

8. Registered Nursing: Approved by the Board of Registered Nursing (BRN) and accredited by the Accreditation Commission for Education in Nursing (ACEN)
9. Basic Fire Academy and Fire Officer Training (State Fire Marshall’s Office–SFMO)

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 2016 totaled 53,588 with 38,752 enrolled in college credit courses and 14,836 enrolled

in Continuing Education. The Community Services Program serves 2,066 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 2016 totaled 36,071 with 26,097 students in college credit courses and 9,164 in classes for Continuing Education students. The Community Services Program serves another 1,298 residents in fee-based not for credit classes.

Santa Ana College offers 273 degrees and certificates in credit programs that prepare students for transfer to 4-year universities or careers. In addition, over 1000 classes are offered to students in a variety of non-credit programs including 29 certificates and an Adult High School Diploma program in Continuing Education programs.



RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

BOARD OF TRUSTEES

President	John R. Hanna
Vice President	Nelida Mendoza
Clerk	Arianna P. Barrios
Member	Claudia C. Alvarez
Member	Zeke Hernandez
Member	Lawrence "Larry" R. Labrado
Member	Phillip E. Yarbrough
Student Trustee	Gregory P. Pierot

RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT ORGANIZATION

CHANCELLOR'S OFFICE

Chancellor	Raúl Rodríguez, Ph.D.
Executive Assistant to the Chancellor	Debra Gerard

BUSINESS OPERATIONS/FISCAL SERVICES

Vice Chancellor	Peter J. Hardash
Assistant to the Vice Chancellor	Linda Melendez

Facility Planning and District Construction and Support Services

Assistant Vice Chancellor	Carri Matsumoto
Director-Facility Planning	Darryl Taylor
District Support Services Supervisor	Alex Oviedo
Project Managers	Alison Coburn, Joe Melendez

Fiscal Services

Assistant Vice Chancellor	Adam O'Connor
Manager-Fiscal Services	Richard Kudlik
Accounting Manager-Payroll	Diane Kincheloe
Director-Internal Audit	Sheena Tran

Information Technologies Services

Assistant Vice Chancellor	Lee Krichmar
Director-Academic Support	Alfonso Oropeza, Archana Bhandari
Director-Information Systems	Stuart Davis
Director-Network and Communications	Jesse Gonzalez

Purchasing

Director	Vacant after 8/1/17
Inventory, Delivery & Storage Supervisor	Armando Toner

Security/Safety

Interim Chief-District Safety/Security	Toni Bland
Lieutenant-Santa Ana College	Scott Baker
Lieutenant-Santiago Canyon College	Manuel Pacheco
Sergeant-Santa Ana College	Monte Huotari & Raymond Wert
Sergeant-Santiago Canyon College	Kenneth Gouldsmith & Francisco Prado

EDUCATIONAL SERVICES

Vice Chancellor	Enrique Perez
Executive Secretary	Patricia Duenez

Child Development Services

Executive Director-Child Development Services	Janneth Linnell
Director-Child Development Services Quality Assurance	My Le Pham
Director-SAC-Child Development Center	Maria Castellon & Jerelyn Cowan
Director-SAC-Child Development Center	East Zeferina Gonzalez
Director-CEC-Child Development Center	Susan Wahl
Director-SCC-Child Development Center	Enriqueta Isais

Resource, Economic and Workforce Development

Director-ACT Center & Corporate Training & Deputy Sector Navigator for Retail/Hospitality/Tourism-Los Angeles	Ruth Cossio-Muniz
Director-Center for International Trade Development & Deputy Sector Navigator for Global Trade & Logistics-Orange County	Lynn Stewart
Director-Digital Media Center	Vacant
Director-Grants	Sarah Santoyo
Director-Small Business Development Center	Vacant
Director-Small Business Initiative & Deputy Sector Navigator for Small Business-Orange County	Elizabeth Arteaga
Executive Director, Institute for Workforce Development	Vacant
Interim Executive Director-Institute for Workforce Development	Leila Mozaffari
Interim Orange County Director-LAOC Regional Consortia	Gustavo Chamorro

Research and Planning

Director-Research, Planning & Institutional Effectiveness	Nga Pham
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Public Affairs and Publications

Director-Public Affairs and Publications	Judy Iannaccone
Manager-Graphic Communications	Eric Harsen
Manager-Publications and Electronic Media	Dean Hopkins

HUMAN RESOURCES

Interim Vice Chancellor	Judy Chitlik
Assistant to the Vice Chancellor	Elvia Garcia
Assistant Vice Chancellor	Alistair Winter
Director, Employment Services	Elouise Marasigan
Equity and Diversity Director-Information Systems	John Birk
Risk Management and Employee Benefits	
Manager-Risk	Don Maus



SANTA ANA COLLEGE

PRESIDENT’S OFFICE

President Linda D. Rose, Ed.D.
 Assistant to the President Kennethia Vega
 Public Information Officer..... Melissa Utsuki

Advancement Office

Executive Director Christina Romero
 Assistant Dean Teresa Mercado Cota
 Coordinator – Scholarships Christine Cha

ADMINISTRATIVE SERVICES

Vice President Michael T. Collins, Ed.D.
 Campus Budget Manager Esmeralda Abejar
 Interim Facilities Manager Heller Sanchez
 Interim Director – Auxiliary Services Jennie Adams
 Coordinator–Community Services..... Lithia Williams

ACADEMIC AFFAIRS

Vice President Carlos L. Lopez
 Enrollment Reporting Manager Carl Jaeger
 Coordinator–Institutional Effectiveness and
 Assessment/Accreditation Liaison Officer Vacant

Distance Education

Coordinator.....Cherylee Kushida

BUSINESS DIVISION

Dean..... Madeline A. Grant
 Academic Computing Center Vacant
 Counselor Dennis Sadler

Accounting and Business Administration

Chair Jinhee Trone

Business Applications and Technology

Chair Vacant

Computer Science

Chair James Hester

Engineering

Co-Chairs Susan Sherod, Craig Takahashi, Ph.D.

Global Business and Entrepreneurship

Chair Gabriel Shweiri

Legal Studies

Co-Chairs Richard Manzano, J.D., Kristen Robinson, J.D.

CAREER EDUCATION AND WORKFORCE DEVELOPMENT

Dean.....Bart Hoffman
 CTE Transitions Coordinator..... Kimberly Mathews
 CTE CounselorJennette Lona, Maria Rios

FINE AND PERFORMING ARTS DIVISION

Dean..... Eve Kikawa
 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 Canon

KINESIOLOGY, HEALTH AND ATHLETICS DIVISION

Dean..... R. Douglas Manning, Ph.D.
 Sports Information Coordinator–Public Affairs Cammie Lewis
 Chair Brian Sos, Ph.D.
 Counselor Jodi Coffman, Ed.D.
 Head Coach–Baseball..... Tom Nilles
 Head Coach–Basketball–Men David Breig
 Head Coach–Basketball–Women Flo Luppiani
 Head Coach–Cross Country–Women Miriam Mitzel
 Head Coach–Football..... Adam Nysen
 Head Coach–Soccer–Men Jose Vasquez
 Head Coach–Soccer–Women Jaymie Baquero
 Head Coach–Softball Kim Nutter
 Head Coach–Swimming–Women Alfred Reyes
 Head Coach–Track and Field –Women Miriam Mitzel
 Head Coach–Volleyball–Women..... Troy Abbey
 Head Coach–Water Polo–Men Alfred Reyes
 Head Coach–Water Polo–Women..... Alfred Reyes
 Head Coach–Wrestling..... Vince Silva

HUMANITIES AND SOCIAL SCIENCES DIVISION

Dean..... Shelly Jaffray
 Counselor Steve Bautista

American Sign Language

Chair Monica Collins

Anthropology/Sociology/Women's Studies

Chair Mario Robertson

Economics/Geography

Chair Gus Montes

English

Chair Matthew Beyersdorf

EMLS

Chair Dalva Dwyer

Ethnic Studies

Chair Rodrigo Valles

History

Chair Daniel Deluna

Honors Transfer Program

Coordinator..... Kathy Patterson

Learning Center

Chair Kathy Walczak

Modern Languages

Chair Leticia Lopez-Jaurequi, 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..... Bart Hoffman
 Counselor Reina Sanabria

Automotive Technology/Diesel/Welding

Chair Noemi English

Child Development and Education Studies

Co-Chairs Mary Funaoka, Ed.D., Michelle Hardy

Criminal Justice

Chair Andy Gonis, Ph.D.

Criminal Justice Academies

Assistant Dean..... Ron Coopman

Fashion Design and Merchandising

Chair Kyla Benson

Fire Technology

Assistant Dean of Fire Technology Donald Mahany
 Director, Fire Instruction Gary Dominguez
 Coordinator–Fitness Program Kris Ross, Terri Wann
 Chair Suzanne Freeman

Manufacturing Technology

Chair Nick Singh

Media Systems

Assistant Dean Don Mahany

Lead, Media Systems..... John Tran

Nutrition and Dietetics

Chair Kyla Benson

**Occupational Therapy Assistant / Occupational Studies**

Coordinator..... Michelle Parolise

Pharmacy Technology

Chair..... John Ross, Jr.

Quick Center

Dean..... Bart Hoffman

Lead Publications Assistant..... Connie Jimenez

Speech-Language Pathology Assistant

Coordinator..... Monica Zarske

LIBRARY DIVISION

Counselor..... Robert Gallego

Chair–Library..... Luis Pedroza, Nell Yang

Chair–Library Technology Program..... Stacy Russo

SCIENCE, MATHEMATICS, AND HEALTH SCIENCES DIVISION

Dean..... Michelle Priest, Ed.D.

Counselor..... Cathie Shaffer

Biology

Chair..... Patty Ortel, Ph.D.

Chemistry

Chair..... Josh Mandir, Ph.D.

Health Sciences/Nursing

Associate Dean/Director..... Rebecca Miller

Assistant Directors..... Dale Mixer, Mary Steckler

Facilitator–EMT..... Patrick Dibb

Chair..... Dale Mixer

Mathematics

Chair..... Ken Sill

Medical Assistant

Chair..... Catherine Emley

Physical Science

Co-Chairs..... Timo Budarz, Ph.D., Phil Hughes

STUDENT SERVICES

Vice President of Student Services..... Vacant

Project Manager..... John Steffens

Research Department–Director of College Research..... Janice Love

ADMISSIONS AND RECORDS

Dean..... Mark Liang, J.D.

Registrar..... Christopher Truong

English Language Academy..... Carmelita Eustaquio

International Student Office..... Carmelita Eustaquio

COUNSELING DIVISION

Dean..... Vacant

Associate Dean, Counseling..... Maria Dela Cruz

Co-Chairs..... Jodi Coffman, Ed.D., Denise Gilmore, Catherine Shaffer

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..... Marisela Godinez, Sandy Morris-Pfyl

Counselor/Coordinator–Assessment..... Maria Aguilar Beltran

Service Learning Center Office..... Sandy Morris

DSPS/HEALTH WELLNESS/PSYCHOLOGY SERVICES

Associate Dean..... Veronica Oforlea, Ed.D.

Adaptive Kinesiology..... Brian Sos, Ph.D.

Alternative Media..... Angela Tran

Coordinator–Communication Disabilities/ABI..... Renee Miller

Coordinator–Health and Wellness Center..... Rebecca Barnard

Coordinator–DSPS..... Vacant

Coordinator–Psych Disabilities..... Susana Salgado, Ph.D.

Learning Disability Specialist..... Louise Janus

Learning Disability Specialist..... Mark Turner

Training Director–Psych Services..... Vacant

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

Veterans Office..... Dorothy Swayne

STUDENT AFFAIRS

Dean..... Alicia Kruienza

Interim Associate Dean–Student Development..... John Steffens

Director–Office of School Community Partnerships..... Alicia Kruienza

Coordinator–SSSP/Upward Bound..... Romelia Madrigal

Coordinator–Student Outreach..... Daniel Marquez

Coordinator–Talent Search..... Marco Ramirez

Director–Veterans Upward Bound/Veterans Resource Center..... Brenda Estrada

Counselor/Coordinator–Guardian Scholars..... Sylvia Sanchez

Student Transition Program..... Luisa Ruiz

CONTINUING EDUCATION

Vice President..... James Kennedy, Ed.D.

Dean–Instruction/Student Services–Santa Ana..... Nilo Lipiz

Dean–Instruction/Student Services–Santa Ana..... Sergio Sotelo, Ph.D.

Dean–Instruction/Student Services..... Christine Kosko

Registrar..... Phuong Nguyen

Adult Basic Education/GED

Chair..... John Tashima

Adult Secondary Education

Chair..... Carrie Patton

Career Technical Education

Chair..... Osiel R. Madrigal, Ed.D.

Counseling

Co-Chairs..... Julia Vercelli, Patty Siguenza

English as a Second Language

Co-Chairs..... Jarek Janio, Rob Jenkins

This chart reflects the RSCCD organization as of July 1, 2017



CHÍNH SÁCH BẤT KỲ THỊ

Sở Giáo dục Hệ thống Đại học Rancho Santiago (RSCCD) hạ quyết tâm tạo cơ hội bình đẳng trong chương trình giáo dục, trong việc thuê mượn nhân viên, và trong tất cả chương trình và sinh hoạt thuộc phạm vi Sở.

Sở và mỗi cá nhân đại diện cho Sở, sẽ cung cấp dịch vụ, lớp học, và chương trình mà không phân biệt nguồn gốc quốc gia, tôn giáo, tuổi tác, phái tính, đặc điểm phái tính, cách thể hiện phái tính, chủng tộc hoặc dân tộc, màu da, tình trạng sức khoẻ, thông tin về di truyền, nguồn gốc tổ tiên, khuynh hướng tính dục, tình trạng hôn nhân, có khuyết tật hoặc bệnh tâm thần, có thai, đang trong quân đội hoặc giải ngũ, hoặc vì người đó được cho là có một hay hơn một đặc tính kể trên, hoặc được cho là có một hay hơn một đặc tính kể trên.

Vị tổng quản trị sẽ đặt ra các thủ tục hành chính nhằm bảo đảm rằng mọi thành viên trong trường đại học có thể khiếu nại việc vi phạm chính sách này, và các khiếu nại được lắng nghe tuân theo các quy định thuộc Điều 5 và các quy định của các cơ quan thi hành luật lệ tiểu bang và liên bang liên quan đến việc bất kỳ thị.

Ngân quỹ của Sở sẽ không bao giờ được dùng để làm hội viên, hoặc tham gia bất cứ việc gì có trả tiền hoặc đóng góp tiền trên danh nghĩa của Sở hoặc của nhân viên làm việc cho Sở hoặc liên đới với Sở, cho bất cứ tổ chức tư nhân nào mà có sự kỳ thị dựa trên căn bản nguồn gốc quốc gia, tôn giáo, tuổi tác, phái tính, đặc điểm phái tính, cách thể hiện phái tính, chủng tộc, màu da, tình trạng sức khoẻ, thông tin về di truyền, nguồn gốc tổ tiên, khuynh hướng tính dục, tình trạng hôn nhân, có khuyết tật hoặc bệnh tâm thần, có thai, đang trong quân đội hoặc giải ngũ, hoặc vì người đó được cho là có một hay hơn một đặc tính kể trên, hoặc vì sự liên đới của người đó với một người hoặc nhóm có hoặc được cho là có một hay hơn một đặc tính kể trên. Nếu có thắc mắc về việc tuân thủ luật lệ và/hoặc về thủ tục khiếu nại, xin liên lạc viên chức chương trình Title IX của Sở và/hoặc điều hợp viên chương trình 504/ADA. Viên chức chương trình Title IX của RSCCD và cũng là điều hợp viên chương trình 504/ADA là Judy Chitlik, địa chỉ 2323 N. Broadway, Santa Ana, CA 92706, số điện thoại 714-480-7489.

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 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 Officer and/or Section 504/ADA Coordinator. RSCCD Title IX Officer and Section 504/ADA Coordinator: Judy Chitlik, 2323 N. Broadway, Santa Ana, CA 92706, 714-480-7489.

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 membresía, 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 membresía 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.

Preguntas sobre el cumplimiento y/o el procedimiento para quejas pueden ser dirigidas al Oficial del Distrito a cargo del Título IX en RSCCD y Coordinador de la Sección 504/ADA de RSCCD: Judy Chitlik, 2323 N. Broadway, Santa Ana, CA 92706, 714-480-7489.



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.

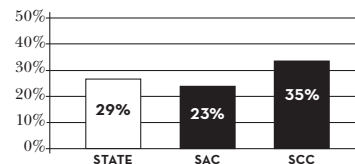
(BP4201 Faculty)

RSCCD 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.

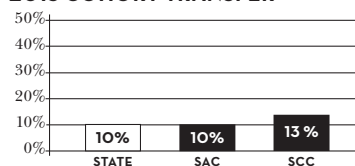
Of the degree, certificate or transfer seeking first-time full time freshman students who entered RSCCD colleges in Fall 2013, the “completion rate” represents those students who earned an Associates Degree, Certificate of Achievement, or 60 UC/CSU transferable credits within three years.

2013 COHORT COMPLETION



The “transfer rate” represents non-completer students who transferred to any other two- or four-year institution within three years.

2013 COHORT TRANSFER



These rates do not represent the success rates of the entire student population at RSCCD colleges, nor do they account for student outcomes occurring after this three-year tracking period.

VIOLENCE AGAINST WOMEN ACT (VAWA)

On March 7, 2013, President Obama signed into federal law the Violence Against Women Reauthorization Act of 2013 (VAWA), which is aimed at improving how colleges and universities in the U.S. address sexual violence. This new law imposes obligations for the District to revise its policy and practices to comply with new regulations that addresses and prohibits acts of violence such as, sexual assault, domestic violence, dating violence and stalking, and it clarifies the rights of victims. The new regulations also include:

- Reporting campus crime statistics beyond the crime categories that the Clery Act already mandates, to which now include incidents of domestic violence, dating violence and stalking, as well as crimes motivated by gender identity or national origin;
- Providing comprehensive educational prevention and awareness programs for incoming students and new employees, in addition to ongoing prevention and awareness campaigns for students, faculty and employees that identifies and defines sexual assault, rape, acquaintance rape, domestic violence, dating violence and stalking; and
- Conducting annual training for investigators and hearing officers who investigate and review reported offenses. In addition, both Title IX and VAWA legislation permits the District to assist both the victim and the accused with:
 - An investigation
 - Counseling and medical services Choosing a support person to accompany them throughout proceedings
 - Allowing the victim and the accused to attend different classes
 - Academic support services

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.

Please go to www.sac.edu and click on “Discover SAC” to review all the current Student Consumer Information including

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 commit-



tee, or assisting another school official in performing his/her tasks.

Santa Ana College contracts with the following School Officials:

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

****REVISED 12.05.17 SEXUAL HARASSMENT POLICY (TITLE IX)**

Board Policy 3430 (BP3430) Prohibition of Harassment prohibits all forms of harassment 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. 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 violence. Sexual violence includes dating violence, domestic violence and stalking. The District shall also be free of other unlawful harassment, 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 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. Students can file a harassment 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

Or with the Santa Ana College's Associated Dean of Student Life at: Their office at VL 108 or (714) 564 6212.

The procedures for filing and investigation of a discrimination complaint can be found at: <https://www.rscdd.edu/Trustees/Pages/AR-3435.aspx>

The District also strictly prohibits retaliation against any individual for filing a complaint of harassment or sexual violence or for participating in such an investigation. Such conduct is illegal and constitutes a violation of this policy. All allegations of retaliation will be swiftly and thoroughly investigated. If the District determines that retaliation has occurred, it will take all reasonable steps within its power to stop such conduct. Individuals who engage in retaliatory conduct are subject to disciplinary action, up to and including termination or expulsion.

Any student or employee who believes that he or she has been harassed or retaliated against in violation of this policy should immediately report such incidents by following the procedures described in AP 3435. Supervisors are mandated to report all incidents of harassment and retaliation that come to their attention.

SEXUAL AND OTHER ASSAULTS ON CAMPUS (TITLE IX)

Any sexual assault or physical abuse, including, but not limited to, rape, as defined by California law, whether committed by an employee, student, or member of the public, that occurs on district property, is a violation of district policies and procedures, and is subject to all applicable punishment, including criminal procedures and employee or student discipline procedures. Students, faculty, and staff who may be victims of sexual and other assaults shall be treated with dignity and provided comprehensive assistance. The Chancellor shall establish administrative procedures that ensure that students, faculty, and staff who are victims of sexual and other assaults receive appropriate information and treatment, and that educational information about preventing sexual violence is provided and publicized as required by law. The procedures shall meet the criteria contained in EC 67385 and 67385.7 and 34 C.F.R. § 668.46. See Administrative Regulation AR3540.

Students who have been the victim of sexual violence should contact SAC Campus Safety and Security at 714-564-6330.

Students can receive care, confidential psychological counseling, and assistance through SAC Student Health and Wellness Services located in U-120, or contact the office by telephone at 714-564-6216. Additional information and resources can be found at www.rscdd.edu/Departments/Risk-Management/TitleIX/Pages/default.aspx.

Alternatively, Students can file a Sexual Assault complaint (Title IX), which includes harassment or sexual violence 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

Or with the Santa Ana College's Associated Dean of Student Life at: Their office at VL 108 or (714) 564 6212.

The procedures for filing and investigation of a discrimination complaint can be found at: <https://www.rscdd.edu/Trustees/Pages/AR-3435.aspx>

**** END REVISION**

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)



ADMISSION 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.
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. The student must have attended a high school (public or private) in California for three or more years.
- b. The student must have graduated from a California high school or attained the equivalent prior to the start of the term (for example, passing the GED or California High School Proficiency exam).
- c. An alien student who is without lawful immigration status must file an affidavit with the college or university stating that he or she 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.



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 institutional grants, community college fee waivers, Cal Grant and Chafee Grant.
- 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 \$6,840.00; health insurance, \$1,488.00; textbooks and supplies, \$800.00; living expenses, \$12,000.00, enrollment fee \$1,104.00, other fees \$223.00 for a total of \$22,455.00. 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. 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 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 \$50.00 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

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.

- 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.

- College credit may only be granted toward Santa Ana College associate degree and certificate programs.
- 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.
- 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).
- Santa Ana College may not determine course transferability to other colleges and universities.

Students who have completed coursework outside of the United States are encouraged to meet with a counselor to determine course and program applicability.

STUDENT SUCCESS AND SUPPORT PROGRAM

The Student Success and Support Program (3SP) is designed to support the transition of new students into the college by providing core services that promote academic achievement and successful completion of degrees, transfer preparation, career technical education certificates, or career advancement. In an effort to promote student success, English and Math placement testing, orientation and advisement toward the development of an education plan are core services required of all entering students, as mandated by the state (effective Fall 2014). Students must also declare a course of study (major), and receive advisement towards the development of a Comprehensive Education Plan no later than the semester after which the student completes 15 degree applicable units. Not completing these core services may result in the loss of priority registration.

The first three requirements of the Student Success and Support Program can be easily accomplished by following the linked steps below:

1. Take the English and Math Placement Tests. All Associate degree and transfer programs require English and Math. Even if the student's academic goal does not require English or Math, the placement test results are very helpful when it comes to selecting courses and ensuring that the student will successfully pass the courses. Once the student take the placement tests the student will



be scheduled for a group new student orientation and advisement. To schedule an English and Math Placement Test appointment go to: www.sac.edu/student-services/testingcenter

- Attend a New Student Orientation and Advisement Session to receive valuable information to help the student select and reach your academic goal, and learn about the many programs, certificates, degree pathways and student support services offered at Santa Ana College.
- Create an Abbreviated Education Plan during the orientation and advisement session. An Abbreviated Educational Plan states the student's academic goal and the first courses you needed to reach a goal.

If the student has completed a prerequisite course at another college, or if the student took placement testing at another college, bring transcripts and/or English and Math placement results to the Counseling Center to determine if the student is exempt from testing, and to develop an Abbreviated Education Plan. The student may be referred to our online orientation or other alternate core services at that time to complete the 3SP requirements. The Counseling Center is located in the Administration (S) Building, or call 714-546-6103.

- To complete the final Student Success and Support Program requirement for entering students, the student must also declare a major course of study, and receive advisement towards the development of a Comprehensive Education Plan. This can be accomplished by enrolling in a counseling course, attending an educational planning workshop, or by scheduling an appointment with a counselor.

Under certain circumstances the student may be exempt from the requirements of completing an orientation, placement testing and an educational plan. For more information, go to the Counseling Division Homepage on the SAC Website, under Student Success and Support Program (3SP) at www.sac.edu/StudentServices/Counseling/3sp/Pages/default.aspx.

ASSESSMENT

WHO should complete testing?

- All new and returning students per the state mandates under the Student Success & Support Program (3SP).
- If you plan to enroll in English, EMLS/ESL, Reading, Math, and some Science courses.
- For more information go the Counseling Division homepage on the SAC website and look under Student Success & Support Program (3SP).

WHAT if I tested at another college?

- You can bring a copy of the placement results in English, Reading, and Math which must include your name, name of the placement test(s), the raw score, test date(s), and class placement to the Assessment Center (L-223) for review. You can also meet with a Counselor in the Counseling Division located in S-110.
- A Counselor may be able to also review your high school transcripts if you graduated within the last 10 years to make a placement recommendation along with your placement tests results.**
- English results are good for two years.
- Math results are good for 1 year.
- ESL test scores from other institutions are not accepted.

TYPES of placement tests that you might take

- College Test of English Placement (CTEP).** This test is for students that have studied English and/or ESL in school for at least seven years or who use English on a daily basis.
- Test of English Language Development (TELD).** This test is for students who have not studied English for seven years or who do not use English as their primary language.
- If you are not certain of which test CTEP or TELD to take, please talk with a Counselor.
- College Test of English Placement (CTEP-Reading Comprehension).** This test is used to determine reading comprehension.
- Math Diagnostic Testing Project (MDTP).** This test is for math and has four levels that you will choose from based on your previous math preparation.

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 are currently effective with the Fall Semester, 2013.

Students will have the following registration priority:

- 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 Students who are continuing students, not on academic or progress probation for two consecutive terms as defined in these policies and procedures, and
- First time students participating in the Early Decision/Early Welcome programs who have completed orientation, assessment, and developed student education plans
- Students who are continuing students, not on academic or progress probation for two consecutive terms as defined in these policies and procedures, and
- New matriculating students with educational plans
- New non-matriculating students Probationary students (academic and progress) & students with 100+ degree applicable units
- Career Advanced 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 went into effect beginning with registration for Fall Semester, 2013.

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

- Student has attempted 12 units and his/her RSCCD cumulative GPA has fallen below 2.0 for two consecutive semesters;



2. 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.

3. 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 codes are 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)

High School Career Advanced Placement Student or “CAP” Student is registering for a college class. **This is a limited program geared toward educational enrichment not remediation.**

- 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.

- 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.

Students who are currently enrolled in grades K–8 are required to pay all college fees.

- Enrollment fees are not charged to high school students 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.* All concurrently enrolled high school students are charged health fees. CAP students by law do not have priority registration. This occurs 4 days before the start of the semester or session.

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.

College students receive priority for admission. 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.” 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.**

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. Prerequisite

sites 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 \$46.00 per unit.
2. A health fee of \$19.00 per semester (\$16.00 for summer and \$18.00 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 each semester for students parking on campus. It may be purchased at registration via WebAdvisor.
4. A College Student Life and Leadership fee of \$10.00 is payable at registration for classes. This fee is optional. Students who do not wish to pay this fee may request a prompt refund by calling 714-564-6430 or by visiting the Cashier's Office, VL-205B. Refunds must be requested before your drop for non-payment date.
5. Representation fee of \$2.00. This fee is mandatory.
6. Student ID cards are FREE of charge and available at the Campus Cashiers Office.

Non-resident Tuition

Non-resident Tuition: \$285.00 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 within only 3 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 cancelled by the college. There is no refund for classes added after the refund deadline date. (See current WebAdvisor schedule 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 failed to pay a proper financial obligation shall have grades, transcripts, 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.



FINANCIAL AID

FINANCIAL AID PROGRAMS

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 January 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 www.sac.edu/StudentServices/FinancialAid/.

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 1) avoid total withdrawal from all classes, 2) successfully complete at least one class during the semester, 3) 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 from \$600 to \$5,920 for the academic year.

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. The maximum award amount at Santa Ana College is \$4,000.

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 <https://www.chafee.csac.ca.gov/StudentApplication.aspx>.

CALIFORNIA STATE PROGRAMS

Board of Governors Fee Waiver (BOGW)

The 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 BOGW:

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

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

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 BOG 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 on page 25 of this catalog.

A student may appeal the loss of the BOG 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 manner
- 3) Significant academic improvement
- 4) Changes to the student's economic situation
- 5) The student was unable to obtain essential support services
- 6) 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 January 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. Awards range up to \$1,670. Eligibility is based on demonstration of substantial financial need.

Cal Grant C

Cal Grant C assists vocational students with tuition and training costs.

Awards range up to \$547 for 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 or 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.

The Cal Grant C program is intended to provide training in areas of manpower need.



DEGREES, CERTIFICATES AND TRANSFER PLANNING

ASSOCIATE DEGREES

The general education coursework required for the associate degree at Santa Ana College is listed on page 26 (Plan A).

Completion of the general education pattern for the California State University listed on page 27 (Plan B) or the Intersegmental Transfer Curriculum "IGETC" listed on page 28 (Plan C) also fulfill the general education requirements for the Santa Ana College Associate Degree.

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 in arts and the associate in science. The distinction between the associate in 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 in 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 index).

60 units with at least a 2.0 grade point average are required for the degree. 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 A.A.-T. or A.S.-T.

Courses intended to fulfill the major requirements may not be taken under the Pass/No Pass option, unless students are earning an A.A.-T or A.S.-T, or as designated in certain programs or disciplines.

CERTIFICATE OF ACHIEVEMENT PROGRAMS

A Certificate of Achievement (18 or more units or state approved under 18 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.

CERTIFICATE OF PROFICIENCY PROGRAMS

A certificate is under 18 units and/or is not a state approved program. A certificate is verification of completion in a particular subject matter. A certificate will NOT be included on the official transcript. Certificate programs include only those courses which focus on vocational skills. The certificate has the sole objective of employment in a specialized area, and for this reason there are no general education requirements in a certificate program. Santa Ana College certificate programs are described in the catalog section on College Credit Instructional Programs. At least fifty percent of certificate of proficiency course requirements must be completed at Santa Ana College.

DISTANCE EDUCATION

Distance education courses are Santa Ana College credit courses that give students the opportunity to complete most of their coursework outside of the classroom, through the Internet. 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 computer and Internet access with an individual email account. Students may also use computers in some campus facilities. The majority of the coursework is done online; however, some classes may require proctored testing on-campus. *Hybrid* (blended) courses combine on-campus instruction with online learning. Classes may meet at least once during the semester. Details of scheduled course instruction is available in the schedule of classes, WebAdvisor, and at the Distance Education website, www.sac.edu/disted.

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 pathways:

- Associate in Science in Business Administration for Transfer (A.S.-T in Business Administration); this degree is for transfer to CSU and can be completed in 2 years
- Associate in Arts, A.A. in Liberal Arts Degree, 2 year completion
- Business Administration Major Preparation for CSU, Fullerton, 1 year completion

For Online Degree Pathway information, please visit our website: www.sac.edu/onlinepathway, call (714) 564-6725, or email us at sac_disted@sac.edu.



ASSOCIATE DEGREES FOR TRANSFER



Associate Degree for TransferSM

In addition to traditional associate degrees, California Community Colleges offer Associate Degrees for Transfer (ADT) to the CSU. These may include Associate in Arts (A.A.-T) or Associate in Science (A.S.-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 A.A.-T or A.S.-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 A.A.-T or A.S.-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 A.A.-T and A.S.-T degrees. To find out which CSU campuses accept each degree, please meet with a SAC counselor. You can also find this information at: www.degreewitha guarantee.com. **An A.A.-T or A.S.-T degree may not be the best option for students intending to transfer to a particular CSU campus, or to a university or college that is not part of the CSU system.** Current and prospective community college students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

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 27); OR the Intersegmental General Education Transfer Curriculum (IGETC page 28) 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 A.S.-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 A.S.-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.

5. earn a minimum grade of C or P (C minus is not acceptable) in all courses required for the major.

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
Philosophy
Physics
Political Science
Psychology
Sociology
Spanish
Studio Arts
Theatre Arts

See the Instructional Programs Section of this catalog for major requirements. Additional degrees were pending approval by the California Community College Chancellor's Office at the time of catalog publication

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 A.A.-T/A.S.-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 CCC's 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 in Science Degree
 AA = Associate in Arts Degree
 AA-T = Associate in Arts for Transfer
 AS = Associate in Science Degree
 AS-T = Associate in Science for Transfer
 CA = Certificate of Achievement
 CP = Certificate of Proficiency
 P = Pending Approval

Program of Study	BS	AA	AA-T	AS	AS-T	CA	CP
Accounting		1				6	4
American Sign Language						1	
Anthropology		1	1				
Art		3	2			7	1
Automotive				1		6	5
Biology				1	1		
Biotechnology				1		3	1
Black Studies		1					
Business				1	1		
Business Applications and Technology		4				4	7
Chemistry				1	1		
Chicano Studies		1					
Child Development		3			1	4	1
Communication Studies		1	1				
Communication & Media Studies		2	1			1	
Community Social Services		1					
Computer Information Systems				1		1	7
Computer Science				1	1	1	1
Criminal Justice		1			1	1	1
Dance		1				1	
Diesel Technology				2		2	6
Earth Science		1					
Economics		1	1				
Education		1	1				2
Engineering				8		6	8
English		1	1				
Entrepreneurship		1				1	1
Ethnic Studies		1					
Fashion Design		3				4	6
Film, Television, and Electronic Media					1		
Fire Technology				4		4	
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	7
Kinesiology		1	1			1	1
Law						3	
Liberal Arts		6					
Library Technology		1				1	
Management		2				2	3
Manufacturing Technology				5		5	1
Marketing		1					1
Mathematics				1	1		
Medical Assistant				1		1	
Modern Languages		1	1				
Music		1	1			1	
Nursing				2			
Nutrition and Dietetics		1			P	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	3	1
Theatre Arts		2	1				5
Welding				1		3	1
Women's Studies		1					



THE ASSOCIATE DEGREE

NOTE: See page 28 for information about Associate Degrees for Transfer.

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 26 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.



ASSOCIATE DEGREE REQUIREMENTS: 2017–2018

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. Units earned at a regionally accredited college or university on a pass/no pass basis will be counted toward the degree requirements of the college, to a maximum of 15 units.

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. **NOTE:** See Plan A, page 26 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.

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 Associate Degrees for Transfer, or as designated in certain programs or disciplines (see page 312) or as designated 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

1. Satisfactory score on the SAC/SCC Reading Placement Test at the time of initial placement testing, OR
2. Satisfactory score on a Reading Department Test, OR
3. Successful completion of any Reading course at the 100 level or above, OR
4. A "C" grade, or better in English 102/102H, English 103/103H or Philosophy 110/110H.

B. Mathematics

1. Completion of Mathematics 083/084 or any other Mathematics course of 3 or more units, numbered above the level of 083/084, OR
2. Score on the SAC/SCC mathematics placement test indicating placement in a mathematics course numbered above the level of 083/084.

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 (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 one semester before 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: 2017-2018

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

NOTE: See page 25, 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

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
 - Economics 120, 121
 - Geography 100 or 100H, 102 or 102H, 140, 155
 - History 101 or 101H, 102 or 102H
 - 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
- 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
- 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, 195 A, 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, 270, 271, 272
- Music 101 or 101H, 102 or 102H, 104, 105, 110, 111, 211
- Philosophy 106 or 106H, 108, 112, 118
- Television/Video Communications 101, 103, 104
- Theatre Arts 100, 105

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
- 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
- English 245, 246, 278
- Music 103
- Nutrition and Food 118
- 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.
- Communication Studies 102, 140, 145
- Computer Science 100, 105
- Counseling 144
- English 102 or 102H, 103 or 103H
- Mathematics 083, 084, 105, 140, 145, 150, 160, 170, 180 or 180H, 185, 204, 219 or 219H, 280, 287
- Philosophy 110 or 110H, 111
- Psychology 210
- Reading 101, 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 307 for additional information.

1. Completion of one of the following:

- Business 130
- Child Development 102, 107
- Counseling 100, 116, 120, 124, 125, 128
- Entrepreneurship 100
- Fashion Design Merchandising 103
- Interdisciplinary Studies 111, 155
- Kinesiology, Health Education 101, 102, 103, 104
- Kinesiology, Professional 125, 160
- Library and Information Studies 100
- Mathematics 030
- Nutrition and Food 115 or 115H
- Philosophy 111
- Psychology 140, 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, 123, 140A, 150A, 155A, 160A, 169A, 169B, 170A, 200A, 200B, 200C, 211A, 211B, 220A, 220B, 220C, 226A, 260A, 260B, 265A, 265B, 169B, 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, 204
- Kinesiology, Fitness 100, 101A, 101B, 101C, 102, 109A, 109B, 109C, 110A, 110B, 110C, 112A, 112B, 112C, 115A, 115B, 115C, 147A, 147B
- Kinesiology, Intercollegiate Athletics 125, 128, 133, 134, 171, 201, 202, 204, 206, 209, 210, 211, 212, 213, 214, 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, 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: 2017-2018

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 units of general education at either college in the Rancho Santiago Community College District 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 general education units.
2. No more than 30 semester units may be certified for areas B through D combined, which are described in the next section.
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. Communication in the English Language and Critical Thinking, A1, A2, and A3; and B. The Physical Universe and Its Life Forms, B4.) 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 A.S.-T in Biology must complete CSU-GE Breadth for STEM. See "Associate Degrees for Transfer" on page 28 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 2017 and are valid through Summer 2018.**

TRANSFER CREDIT

1. Students may transfer up to 70 semester units to the CSU system. Sixty transferable units are needed for junior standing.
 2. 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, 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**
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, 259**
Environmental Studies **259**

B3: Laboratory Activity

Anthropology **101L**
Astronomy **140**
Biology **109L, 111, 115, 139, 149, 190L, 211, 212, 214, 229, 239, 259**
Chemistry **109, 115, 119, 209, 210, 219 or 219H**

B4: Mathematics/Quantitative Reasoning

Earth Science **115**
Environmental Studies **259**
Geography **101L**
Geology **101L, 201**
Physics **109, 210, 211, 217, 227, 237, 279, 289**
Physical Science **115, 118**
Courses must be completed with a grade of "C" or better.
Mathematics 105, 140, 145, 150, 160, 170, 180 or 180H, 185, 204, 219 or 219H, 280
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
English 233A, 233B, 233C
Interdisciplinary Studies 121
Music 101 or 101H, 102 or 102H, 103, 104, 105, 110, 111, 211
Photography 150
Television/Video Communications 103, 104
Theatre Arts 100, 105

C2: Humanities: Literature, Philosophy, Languages Other Than English

American Sign Language 110, 111, 116, 210
Chinese 101, 102
English 102 or 102H, 206, 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
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
Political Science **101 or 101H, 200 or 200H, 201, 220, 235**
Psychology 100 or 100H, 140, 157, 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:

Business 130
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

E2:

Kinesiology, Activities 107A, 107B, 123, 140A, 150A, 155A, 160A, 169A, 169B, 170A, 200A, 200B, 200C, 211A, 211B, 220A, 220B, 220C, 226A, 260A, 260B, 265A, 265B, 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, 204
Kinesiology, Fitness 100, 101A, 101B, 101C, 102, 110A, 110B, 110C, 112A, 112B, 112C, 115A, 115B, 115C, 147A, 147B
Kinesiology, Intercollegiate Athletics 125, 128, 133, 134, 171, 201, 202, 204, 206, 209, 210, 211, 212, 213, 214, 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: 2017-2018

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.

- 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.
- 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.
- 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.
- Prior to requesting certification, have all official transcripts on file from every high school and college attended.
- 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.
- 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.
- Courses completed at foreign institutions (without US regional accreditation) are not acceptable except for certification of competence in a language other than English.
- Students earning an A.S.-T in Biology or Chemistry must complete IGETC for STEM. See "Associate Degrees for Transfer" on page 28 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 2017 and are valid through Summer 2018.

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**, 145, 150**, 170**, 180** or 180H**, 185, 219** or 219H**, 280; 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, 108
Communications & Media Studies 103
Dance 100** or 100H**, 102, 105
Interdisciplinary Studies 121
Music 101** or 101H**, 102** or 102H**, 103, 104, 111, 211
Photography 150
Television/Video Communications 103, 104
Theatre Arts 100, 105

Group B: Humanities (minimum 1 course)

American Sign Language 111, 116, 210
Chinese 102
English 102** or 102H**, 206, 220, 231, 232, 233A or 233B or 233C, 241, 242, 243, 245, 246, 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
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**, 105, 118, 120** or 120H**, 121** or 121H**, 123, 124** or 124H**, 125, 127, 133, 146, 163*, 181
Interdisciplinary Studies 117H, 155
Political Science 101** or 101H**, 200** or 200H**, 201, 220, 235
Psychology 100** or 100H**, 140, 157**, 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, 177, 190, 211**, 212, 214, 229**, 239, 249, 259
Environmental Studies 259

Group C: Laboratory Activity

Anthropology 101L
Astronomy 140
Biology 109L, 111, 115, 139**, 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, Chinese 101, French 101, Italian 120, Japanese 101, Spanish 101** or 101H**, or Vietnamese 101;

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 "O" 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 40 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 with 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	2.7 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	2.7 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	1.3 units (2.7 units maximum combined credit for both Cmpr exams)
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	2.7 units (2.7 units maximum combined credit for both Cmpr exams)
Computer Science Principles	N/A	N/A	6 units	N/A	5.3 units
Economics: Macroeconomics	ECON 120 3 units	Area D2 3 units	3 units	Area 4 3 units	2.7 units

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ADVANCED PLACEMENT POLICIES

(CONTINUED)

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: Microeconomics	ECON 121 3 units	Area D2 3 units	3 units	Area 4 3 units	2.7 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	2.7 units
French Language and Culture	FREN 101 and 102 10 units	Area C2, 3 units (6 units if	6 units (Must be passed prior to F '09)	Area 3B and 6A 3 units	5.3 units
French Literature	Plan A, Area C 3 units	Area C2 (Must be passed prior to F '09) 3 units ⁶	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 D5 3 units	3 units	Area 4 3 units	2.7 units
Government and Politics: Comparative	POLT 201 3 units (also meets Plan A, Area B2)	Area D8 3 units	3 units	Area 4 3 units	2.7 units
Government and Politics: United States	POLT 101 3 units	Area D8 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)	2.7 units
History: European	HIST 102 3 units	Area C2 or D6 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 D6 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 101 and 102 6 units	Area C2 or D6 ⁵ 3 units	6 units	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	2.7 units
Latin	Plan A, Area C 3 units	Area C2 3 units	6 units	Area 3B and 6A 3 units	5.3 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

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ADVANCED PLACEMENT POLICIES

(CONTINUED)

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
Physics B (available prior to Fall '15)	PHYS 279 and 289 8 units	Area B1 and B3 4 units ⁸ (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	2.7 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	2.7 units (5.3 units maximum combined credit for all Physics exams)
Psychology	PSYCH 100 3 units	Area D9 3 units	3 units	Area 4 3 units	2.7 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	2.7 units

¹All 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.

²This 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.

³Each 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.

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

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

⁶Latin Literature 6 units if passed prior to F '09. Latin: Vergil 3 units if passed prior to F '12.

⁷This 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.

⁸If 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 of 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)
HISTORY AND SOCIAL SCIENCES				
American Government	Area B1 or B2 3 units	3 units	Area D8 3 units	3 units
History, United States I	Area B1 3 units	3 units	Area D6 and US-1 ⁵ 3 units	3 units
History, United States II	Area B1 3 units	3 units	Area D6 and US-1 ⁵ 3 units	3 units
Human Growth and Development	Area B2 3 units	3 units	Area E1 3 units	3 units

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THE COLLEGE-LEVEL EXAMINATION (CLEP) POLICIES

(CONTINUED)

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
Introduction to Educational Psychology	N/A	3 units	N/A	3 units
Introductory Psychology	Area B2 3 units	3 units	Area D9 3 units	3 units
Introductory Sociology	Area B2 3 units	3 units	Area D10 3 units	3 units
Principles of Macroeconomics	Area B2 3 units	3 units	Area D2 3 units	3 units
Principles of Microeconomics	Area B2 3 units	3 units	Area D2 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 C2 or D6 ⁴ 3 units	3 units
Western Civilization II	Area B2 3 units	3 units	Area D6 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 B1 or B2 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)

¹All 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.

²This 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.

³If 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.

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

⁵This 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.

⁶Also 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

(Continued on next page)



INTERNATIONAL BACCALAUREATE (IB) POLICIES

(CONTINUED)

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
Economics HL	Area B2 3 units	Area D2 3 units	6 units	Area 4 3 units	5.3 units
Geography HL	Area B2 3 units	Area D5 3 units	6 units	Area 4 3 units	5.3 units
History (any region) HL	Area B2 3 units	Area C2 or D6 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 C3 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 D9 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

¹All 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.

²This 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.

³Each 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.

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

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

⁶Score of 4 or higher required for CSU Credit.

⁷The 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.

⁸Also 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 general education requirements.

Since transfer requirements change frequently, students should meet with a counselor regularly to plan an academic program which will assure a smooth transition to the transfer institution of their choice.

Four-year colleges and universities often make changes to their requirements. The requirements listed in this section were up-to-date at the time of publication; however, changes may have occurred after publication. Current transfer information is available in the University Transfer Center and the Counseling Center at Santa Ana College. Course Articulation agreements are also available at www.assist.org and on the SAC Counseling Department website.

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) 113 community colleges.

Santa Ana College provides the first two years of a four-year college or university program. Students enrolled in a transfer program can complete most of their general education and lower division major requirements before transferring. Students who are planning to transfer to a four year college or university should meet with a counselor in the Counseling Center or in the University Transfer Center at Santa Ana College to develop a Student Educational Plan that will identify the courses needed to 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 four year colleges and universities. Representatives from four year schools are available in the UTC to meet with students individually and provide information about their programs and requirements. The Center maintains a resource

library of college catalogs and other information about transfer programs. College Fairs are held each semester with representatives from California colleges and universities providing information to potential students. Transfer application workshops are offered during priority filing periods. In addition, organized tours to various four-year campuses are available through the UTC. For more information call 714-564-6165

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, major or elective requirements.

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 40 or at www.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 to a four-year college or university as a junior without loss of time or credits by completing the following:

1. Lower Division Major Requirements

Most majors at four-year colleges and universities 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 majors at four-year colleges and universities.

Information about many specific major requirements for UC and CSU campuses can be found at www.assist.org. Students should check the catalog of the college of intended transfer and meet with their counselor for additional information about major programs and requirements.

2. General Education Requirements

These are the courses required of everyone to obtain a degree regardless of major. They are designed to provide students with the knowledge and skills that will enable them to function as intelligent and creative members of the community. 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 all offer, at least, "priority consideration for admission." While Santa Ana College continues to add to the honors transfer agreement list, SAC currently has agreements with:

California State University, Fullerton
 California State University, San Diego
 California State University, San Jose,
 Engineering
 California State University, Stanislaus
 University of California, Berkeley
 University of California, Irvine
 University of California, Los Angeles
 Azusa Pacific
 Chapman University
 La Sierra University
 Loyola Marymount University
 Mills College
 Occidental College
 Pacific University in Oregon
 Pitzer College
 Pomona College
 Whitman College in Washington

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.



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.

Prospective CSU transfer students should consult a counselor regarding CSU admission as requirements vary depending upon the student's status at the time of high school graduation. The following information is offered as a general guideline.

CALIFORNIA STATE UNIVERSITY – ADMISSION REQUIREMENTS FOR TRANSFER

I. Lower Division Admission Requirements

Transfer applicants with fewer than 60 semester or 90 quarter units must have a grade point average of 2.0 (C) or better in all transferable units attempted, be in good standing at the last college or university 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 application is being made;

- 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. Some campuses may require lower division transfer students to complete specific college coursework, e.g. the basic skill courses, as part of their admission criteria.

II. Upper Division Admission Requirements

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 www.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 of C or better in mathematics or quantitative reasoning. The mathematics course is expected to have intermediate algebra as a prerequisite unless completion of category B is certified or the student has earned an Associate Degree for Transfer from a CCC.
- 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 www.calstate.edu (search for impactation) 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)**

GENERAL EDUCATION REQUIREMENTS FOR CALIFORNIA STATE UNIVERSITY

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 27 of the catalog for GE Plan B) or the Intersegmental General Education Transfer Curriculum (see page 28 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.

ASSOCIATE DEGREE FOR TRANSFER: A PATHWAY TO THE CSU DEGREE

The Student Transfer Achievement Reform Act (SB1440) established an Associate in Arts for Transfer (A.A.-T) or Associate in Science for Transfer (A.S.-T). The A.A.-T or A.S.-T degrees are designed to provide a clear pathway to the California State University (CSU) degree major. Please see page 28 for additional information about these degrees.

CERTIFICATION OF GENERAL EDUCATION FOR TRANSFER TO CSU

See certification information on page 37.



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.**

Prospective UC transfer students should consult a counselor regarding UC admission, as requirements vary depending upon the student's status at the time of high school graduation. The following information is offered as a general guideline.

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 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 vast 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 by the end of the spring term prior to fall enrollment at UC, earning a grade of C or better 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 2 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.

To be as competitive as possible you should work toward meeting the requirements for the campuses and majors you're interested in.

GENERAL EDUCATION REQUIREMENTS FOR THE UNIVERSITY OF CALIFORNIA

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 28 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, Natural Resources, and the Haas School of Business at **UCB**; any student preparing for a bachelor of science or high unit major at **UCD**; the Henry Samueli School of Engineering and Applied Science at **UCLA**; the school of Engineering and

the School of Natural Sciences at **UCM**; the Marlan and Rosemary Bourns College of Engineering (in some cases) and the College of Natural and Agricultural Sciences at **UCR**; Revelle College may require coursework after enrollment at **UCSD**; students in the College of Engineering may want to choose IGETC courses that also satisfy the college depth requirement 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.

ASSOCIATE DEGREE FOR TRANSFER AND THE UNIVERSITY OF CALIFORNIA

If you're working toward 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 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.

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 have 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

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. All independent colleges urge, and some require, that all undergraduates who are California residents apply for a Cal Grant. 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 www.fafsa.ed.gov and <https://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
- Art Center College of Design
- 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
- Claremont McKenna College
- Columbia College Hollywood
- Concordia University
- Dominican University of California
- Fresno Pacific University
- Golden Gate University
- Harvey Mudd College
- Holy Names University
- Hope International University
- Humphreys College
- International Technological University
- John Paul the Great Catholic University
- Laguna College of Art and Design
- La Sierra University
- Loma Linda University
- Loyola Marymount University
- Marymount California University
- The Master's College
- 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 of California

- University of La Verne
- University of the Pacific
- University of Redlands
- 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

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 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 first and/or second year 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 Up-

per 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, www.assist.org lists required courses for many UC and CSU majors. Other resources include UC Transfer Preparation Paths, and Associate Degrees for Transfer.

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 Economics
 Finance
 Human Resources
 International
 Management
 Management/Computer Information Systems
 Management Science
 Marketing
 Chemical Engineering
 Chemistry
 Chicano Studies
 Child Development
 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
 Family and Consumer Sciences/
 Home Economics
 Film Studies

Fire Protection Administration and Technology
 Geography
 Geology
 Graphic Design
 Health Science
 History
 Hotel/Restaurant Management
 Human Services
 Humanities
 Industrial Engineering
 International Business
 International Studies
 Kinesiology
 Liberal Studies
 Linguistics
 Mathematics
 Mechanical Engineering
 Meteorology
 Microbiology
 Modern Languages
 Music/Musicology
 Nursing
 Nutrition and Dietetics/Food Science
 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 does not represent all transfer majors at all colleges/universities. To find out exactly what majors are available at any particular college/university, students should visit the University Transfer Center at Santa Ana College. Transfer specialists are there to assist students, and resources are available for student use in these locations.

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 OF CALIFORNIA (UC) TRANSFER COURSE AGREEMENT 2017-2018

This agreement lists courses transferable for unit credit at all UC campuses. This list is valid for courses completed during Fall 2017, Spring 2018 and Summer 2018. Additional courses for 2017-2018 may be approved after the publication date for this catalog.

ACCOUNTING

101, 102

AMERICAN SIGN LANGUAGE

*110+, 111+, 116+, 210

*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, 108, 110, 111, 129◇, 130, 131, 132A, 132B, 140A, 140B, 141, 143, 150, 151, 152, 153, 154†, 155, 156, 157, 158, 159A, 159B, 162◇, 184◇, 185◇, 190◇, 192A◇, 195^, 196A◇, 197A◇, 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, ***290◇

*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, **150

*Maximum credit, one course

**No credit for Business 150 if taken after Computer Science 105

BUSINESS APPLICATIONS

150†

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, 120†, 121, 129, 131, 140◇, 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, 103, 109

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, ~132, 140, 201A, 201B, 202A, 202B, 204A, 204B, 205, 206A, 206B, 209, 210, 213, 214, 219A, 219B, 220, 221, 232, 240A, 240B, 250A%, 250B%, 251%, 260%, 261%, 262%, 263%, ~270, 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^), 210

ENGINEERING

100A (formerly 148), 122, 124, 125, 165℄, 183, 195◇, 228, 235, 240†, 250, 250L, 281

ENGLISH

101, 101H, 102, 102H, 103, 103H, 104, 104H, 206, 213 (formerly 211), 220, 231, 232, 233A, 233B, 233C, 241, 242, 243, 245, 246, 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

ITALIAN

120, 121

*Corresponds to two years of high school study

JAPANESE

*101, 102

*Corresponds to two years of high school study

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.



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

KINESIOLOGY

KNAC ~107A, ~123, ~140A, ~150A, ~155A, ~160A, ~169A, ~170A, ~200A, ~200B, ~200C, ~211A, ~211B, ~220A, ~220B, ~220C, ~226A, ~260A, ~260B~265A, ~265B, ~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, 204;

KNFI ~100, ~101A, ~101B, ~101C, ~102, ~109A, ~109B, ~109C, ~110A, ~110B, ~110C, ~112A♦, ~112B♦, ~112C♦, ~115A, ~115B, ~115C, ~147A, ~147B;

KNHE **101, **102, **104, ***105, ***107;

KNIA ~125, ~128, ~133, ~134, ~171, ~201, ~202, ~204, ~206, ~209, ~210, ~211, ~212, ~213, ~214, ~216, ~217, ~218, ~219, ~220, ~221, ~223, ~227, ~231, ~232, ~235, ~240, ~261, ~262, ~270, ~271, ~281, ~291;

KNPR 101Ø, +155, +165, +175, +200, 201♦, 203%, 207%, 170◇;

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 and 107 combined, maximum credit, one course

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, 145, **150, *170, **180, **180H, 185, 204, 219, 219H, 280, 287†

*140 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▲, 109◇, 110, 111, 112, *113A, *113B, 114A, 114B, 115A, 115B, 115C, 115D, 121, 122, 123, 124, 135, 136, 137, 140, 141, 145★, 161, 162, 163, 164A, 164B, 168, 169, 170, 171, 173#, 175, 176, 178, 180A, 180B%, 181, 185, 186, 187, 188, 189, 211, 213, 214, 215A, 216, 217, 241, 268%, 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, 200, 210%, 219, 230, 240, 250

*157 combined with HU-D 107: maximum credit, one course

SOCIAL SCIENCE

219, 219H

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, 142, 150

THEATER ARTS

100, 105❖, 110, 111, 113, 114⊙, 118, 131, 132, 133, 135, 136⊙, 150, 150A◇, 150B◇, 151★, 152¢, 153★, 154★, 155❖, 156†, 250, 255⊙, 256◇

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**

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

1. 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 Technical Educational (CTE) 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

1. 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

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

D. Major Requirement

1. 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.



OCCUPATIONAL STUDIES

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):

1. Demonstrate advanced mastery of OTA clinical skills, including clinical reasoning, that follow the guidelines established in the Frameworks for Occupational Therapy Practice.
2. Relate theory and research to clinical practice areas.
3. Ability to provide OTA services that meets the community needs of diverse populations demonstrating sensitivity and empathy.
4. 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 Course	Units
Psychology 210, Statistics for the Behavioral Sciences	4
Sociology 100, Introduction to Sociology	3
Philosophy 108, Ethics	3

Required upper division major courses

Occupational Studies 301, Therapeutic Approaches to the Older Adult	3
Occupational Studies 304, Movement Theory & Analysis	3
Occupational Studies 305, Advanced Pediatric Practice for the Occupational Therapy Assistant (OTA)	3
Occupational Studies 310, Community-Based Occupational Therapy Practice	2
Occupational Studies 312, Advanced Practice Areas in Occupational Therapy (OT)	3
Occupational Studies 325, Applying Research to Occupational Therapy Intervention	3
Occupational Studies 402, Neurological Principles in Human Performance	4
Occupational Studies 403, Leadership for the Occupational Therapy Assistant (OTA)	3
Occupational Studies 410, Healthcare Systems	3
Occupational Studies 412, Capstone Seminar	3

Required upper division general education courses

Mathematics 319, Quantitative Research Methods for Healthcare Professionals	4
Communication Studies 307, Health Communication	3
Sociology 401, The Sociology of Health, Illness, and Healing	3
Total	50

COMMUNICATION STUDIES (CMST)

Communication Studies 307 Health Communication

Unit(s): 3.0

Class Hours: 48 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.

MATHEMATICS (MATH)

Mathematics 319 Quantitative Research Methods for Healthcare Professionals

Unit(s): 4.0

Class Hours: 64 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.

SOCIOLOGY (SOC)

Sociology 401 The Sociology of Health, Illness, and Healing

Unit(s): 3.0

Class Hours: 48 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.



OCCUPATIONAL STUDIES (OS)

Occupational Studies 301

Therapeutic Approaches to the Older Adult

Unit(s): 3.0

Class Hours: 48 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.

Occupational Studies 304

Movement Theory & Analysis

Unit(s): 3.0

Class Hours: 48 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.

Occupational Studies 305

Advanced Pediatric Practice for the

Occupational Therapy Assistant (OTA)

Unit(s): 3.0

Class Hours: 48 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.

Occupational Studies 310

Community-Based Occupational Therapy Practice

Unit(s): 3.0

Class Hours: 48 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.

Occupational Studies 312

Advanced Practice Areas in Occupational Therapy (OT)

Unit(s): 3.0

Class Hours: 48 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.

Occupational Studies 325

Applying Research to Occupational Therapy Intervention

Unit(s): 3.0

Class Hours: 48 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.

Occupational Studies 402

Neurological Principles in Human Performance

Unit(s): 4.0

Class Hours: 64 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.

Occupational Studies 403

Leadership for the Occupational Therapy Assistant (OTA)

Unit(s): 2.0

Class Hours: 32 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.

Occupational Studies 410

Healthcare Systems

Unit(s): 3.0

Class Hours: 48 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).

Occupational Studies 412

Capstone Seminar

Unit(s): 3.0

Class Hours: 48 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.



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 www.sac.edu/academicaffairs/coursesequences.



ACCOUNTING

Accounting Degree

Program code: **sac.acct.aa**

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):

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. Student will be able to combine critical thinking skills and technical knowledge to solve problems in a constantly-changing professional environment.

Core Courses for the associate in arts degree:

Course	Units
Accounting 101, Financial Accounting	4
Accounting 102, Managerial Accounting	4
Accounting 104, Federal and California Taxes	4
Management 122, Business Communications (3) —OR—	3
Business 222, Business Writing (3)	

Select ONE of the following courses:

Accounting 170, Microsoft Dynamics for Financial Accounting – Core Modules (4)	3-4
Accounting 171, Microsoft Dynamics for Financial Accounting - Operations and Analysis (4)	
Computer Science 163, Microsoft Excel (3)	

Select a minimum of THREE units from the following electives:

Accounting 108, Tax Practices and Procedures (3)	
Accounting 113, Intermediate Income Taxes – Corporations (2)	
Accounting 114, Intermediate Income Taxes – Partnerships and LLCs (2)	3
Accounting 124, Computerized Income Tax Preparation (1)	
Accounting 204, Managerial Cost Accounting (3)	
Accounting 205, Intermediate Accounting (3)	
Business 150, Introduction to Information Systems and Applications (3)	
Total	21-22

Students intending to obtain a bachelor's degree in Accounting or Business are advised to meet with a counselor, and to also look at the degree requirements listed in the catalog of the transfer university of their choice.

General Accounting Certificate (Transcribed)

Program code: **sac.acctg.ca**

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):

Students will acquire adequate general knowledge of accounting to enter into a business environment as an entry-level accounting clerk.

Requirements for the certificate:

Core Courses for the certificate:	Units
Accounting 101, Financial Accounting	4
Accounting 102, Managerial Accounting	4
Business 222, Business Writing —OR—	3
Management 122, Business Communications Business 150, Introduction to Information Systems and Applications (3) —OR—	3
Computer Science 163, Microsoft Excel (3)	

Select a minimum of 4 units from the following:

Accounting 032, Payroll Accounting (1)	4
Accounting 035, QuickBooks I (2)	
Accounting 036, QuickBooks II (2)	
Accounting 104, Federal and California Taxes (4)	
Accounting 108, Tax Practices and Procedures (3)	
Accounting 113, Intermediate Income Taxes – Corporations (2)	
Accounting 114, Intermediate Income Taxes – Partnerships and LLCs (2)	
Accounting 124, Computerized Income Tax Preparation (1)	
Accounting 170, Microsoft Dynamics for Financial Accounting – Core Modules (3)	
Accounting 171, Microsoft Dynamics for Financial Accounting - Operations and Analysis (4)	
Accounting 204, Managerial Cost Accounting (3)	
Accounting 205, Intermediate Accounting (3)	
Total	18

Students intending to obtain a bachelor's degree in Accounting or Business are advised to meet with a counselor, and to also look at the degree requirements listed in the catalog of the transfer university of their choice. Students planning to transfer to four-year institutions should strongly consider taking Business 222, Business Writing, to meet the communication requirement.



Computerized Accounting Certificates

Computerized Accounting–QuickBooks Certificate (Transcripted)

Program code: sac.acctq.ca

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):

Students will acquire adequate general knowledge of Quick Books & accounting to enter into a business environment as an entry-level clerk utilizing Quick Books.

Take all of the following courses:	Units
Accounting 032, Payroll Accounting	1
Accounting 035, QuickBooks I	2
Accounting 036, QuickBooks II	2
Accounting 101, Financial Accounting	4
Accounting 124, Computerized Income Tax Preparation	1
Business 150, Introduction to Information Systems and Applications	3
Select a minimum of 3 units from the following electives:	3
Business Applications 188, Microsoft Excel (1.5)	
Business Applications 189, Excel Application Projects (1.5)	
Business 222, Business Writing (3)	
Management 122, Business Communications (3)	
Computer Science 163, Microsoft Excel (3)	
Total	16

Computerized Bookkeeping–QuickBooks Option Certificate (Transcripted)

Program code: sac.acctbq.ca

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):

Students will acquire adequate basic knowledge of Quick Books to enter into a business environment as an entry-level clerk utilizing Quick Books.

Take all of the following courses:	Units
Accounting 032, Payroll Accounting	1
Accounting 035, QuickBooks	2
Business Applications 179, Introduction to Microsoft Office	4
Select ONE of the following courses:	
Accounting 010, Accounting Procedures (3)	3-4
—OR—	
Accounting 101, Financial Accounting (4)	
Select ONE of the following courses:	
Business Applications 017, Business Writing Skills (3)	3
Management 122, Business Communications (3)	
Business 222, Business Writing (3)	
Select a minimum of 1 unit from the following electives:	
Accounting 124, Computerized Income Tax Preparation (1)	1-1.5
Business Applications 188, Microsoft Excel (1.5)	
Business Applications 189, Excel Application Projects (1.5)	
Total	14-15.5

General Bookkeeping Certificate (Untranscripted)

Program code: sac.genbk.cert

A certificate in general bookkeeping prepares a student with basic knowledge 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):

Students will possess adequate general knowledge of bookkeeping to enter into a business environment as an entry level bookkeeping clerk.

Take all of the following courses:	Units
Accounting 010, Accounting Procedures	3-4
—OR—	
Accounting 101, Financial Accounting 4	
Accounting 032, Payroll Accounting	1
Business 150, Introduction to Information Systems and Applications	3
Select one of the following courses:	
Business Applications 017, Business Writing Skills (3)	3
Management 122, Business Communications (3)	
Business 222, Business Writing (3)	
Select a minimum of 1 units from the following electives:	
Accounting 124, Computerized Income Tax Preparation (1)	3
Banking 010, Teller Training for Financial Institutions (2)	
Business Applications 188, Microsoft Excel (1.5)	
Business Applications 189, Excel Application Projects (1.5)	
Computer Science 163, Microsoft Excel (3)	
Total	13-14

Accounting and Financial Planning Certificate (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):**

Students will acquire adequate general knowledge of accounting and personal finance to establish a foundation for future employment or for advanced studies in the accounting or finance field.

Take all of the following courses:	Units
Accounting 101, Financial Accounting	4
Accounting 104, Federal and California Taxes	4
Business 130, Personal Finance	3
Business 160, Introduction to Stock and Bond Investments	3
Select one of the following courses:	
Accounting 102, Managerial Accounting (4)	3-4
Business 140, Principles of Finance (3)	
Total	17-18

Enrolled Agent Certificate (Untranscribed)

Program code: sac.actea.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):

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.

Requirements for the certificate:

Core Courses for the certificate:	Units
Accounting 101, Financial Accounting	4
Accounting 104, Federal and California Taxes	4
Accounting 108, Tax Practices and Procedures	3
Accounting 113, Intermediate Income Taxes—Corporations	2
Accounting 114, Intermediate Income Taxes—Partnerships and LLCs	2
Accounting 124, Computerized Income Tax Preparation	1
Total	16

Microsoft Dynamics for Financial Accounting Certificate (Untranscribed)

Program code: sac.acctdf.cert

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):

Students will acquire adequate general knowledge of Microsoft Dynamics and its application in financial accounting to enhance their current or future employment.

Requirements for the certificate:

Take all of the following courses:	Units
Accounting 101, Financial Accounting	4
Accounting 170, Microsoft Dynamics for Financial Accounting – Core Modules	4
Accounting 171, Microsoft Dynamics for Financial Accounting – Operations and Analysis	4
Business 150, Introduction to Information Systems and Applications	3
Total	15

Certificate of Professional Accounting – Accounting Study & Ethics Certificate (Transcribed)

Program code: sac.actse.ca

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 Accounting 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: <http://www.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 <http://www.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: <http://www.dca.ca.gov/cba/applicants/ed-requirements.shtml>

Ethics - Required Courses - 10 Units:	Units
Accounting 212, Accountants' Ethics and Responsibilities	4
Business 101, Business Law (3)	3
—OR—	
Business 105, Legal Environment of Business (3)	3
Philosophy 108, Ethics	3

Accounting Study - Accounting Subjects Electives - Select At Least 6 Units:	Units
Accounting 035, QuickBooks I (2)	2
Accounting 036, QuickBooks II (2)	2
Accounting 104, Federal and California Taxes (4)	4
Accounting 108, Tax Practices and Procedures (3)	3
Accounting 113, Intermediate Income Taxes – Corporations (2)	2
Accounting 114, Intermediate Income Taxes - Partnerships and LLCs (2)	2
Accounting 124, Computerized Income Tax Preparation (1)	1
Accounting 170, Microsoft Dynamics for Financial Accounting - Core Modules (4)	4
Accounting 204, Managerial Cost Accounting (3)	3
Accounting 205, Intermediate Accounting I (3)	3
Accounting 206, Intermediate Accounting II (3)	3
Accounting 210, Accounting Information Systems (3)	3
Accounting 211, Auditing (3)	3

Accounting Study - Business Subjects Electives - Select No More Than 14 Units:	Units
Business 100, Fundamentals of Business (3)	3
Business 120, Principles of Management (3)	3
Business 121, Human Relations and Organizational Behavior (3)	3
Business 125, Introduction to International Business (3)	3
Business 130, Personal Finance (3)	3
Business 140, Principles of Finance (3)	3
Business 160, Introduction to Stock and Bond Investments (3)	3
Business 222, Business Writing (3)	3
Marketing 113, Principles of Marketing (3)	3
Computer Science 163, Microsoft Excel (3)	3
Computer Science 167, Microsoft Access (3)	3

Total 30



Certificate of Professional Accounting – Accounting Subjects Certificate (Transcripted)

Program Code: sac.actso.ca

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 examination 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 <http://www.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: <http://www.dca.ca.gov/cba/applicants/ed-requirements.shtml>

Accounting Subjects - Required Courses - 21 Units:	Units
Accounting 101, Financial Accounting	4
Accounting 102, Managerial Accounting	4
Accounting 104, Federal and California Taxes	4
Accounting 205, Intermediate Accounting I	3
Accounting 206, Intermediate Accounting II	3
Accounting 211, Auditing	3
Accounting Subjects - Electives - Select a minimum of 3 units:	3
Accounting 113, Intermediate Income Taxes – Corporations (2)	
Accounting 114, Intermediate Income Taxes – Partnerships and LLCs (2)	
Accounting 204, Managerial Cost Accounting (3)	
Accounting 210, Accounting Information Systems (3)	
Total	24

Certificate of Professional Accounting - Business Subjects Certificate (Transcripted)

Program Code: sac.actbs.ca

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 <http://www.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: <http://www.dca.ca.gov/cba/applicants/ed-requirements.shtml>

Business Subjects - Required Courses - 13 Units:	Units
Accounting 204, Managerial Cost Accounting —OR—	3
Accounting 210, Accounting Information Systems 3	3
Economics 120, Principles/Macro	3
Economics 121, Principles/Micro	3
Mathematics 219, Statistics and Probability —OR—	4
Mathematics 219H, Honors Statistics and Probability	
Business Subjects - Electives - Select a Minimum of 11 Units from below or from any courses not taken in required section above: 11	
Accounting 108, Tax Practices and Procedures (3)	
Accounting 113, Intermediate Income Taxes – Corporations (2)	
Accounting 114, Intermediate Income Taxes - Partnerships and LLCs (2)	
Accounting 124, Computerized Income Tax Preparation (1)	
Business 100, Fundamentals of Business (3)	
Business 120, Principles of Management (3)	
Business 121, Human Relations and Organizational Behavior (3)	
Business 130, Personal Finance (3)	
Business 140, Principles of Finance (3)	
Business 160, Introduction to Stock and Bond Investments (3)	
Business 222, Business Writing (3)	
Marketing 113, Principles of Marketing (3)	
Computer Science 163, Microsoft Excel (3)	
Computer Science 167, Microsoft Access (3)	
Total	24

AMERICAN SIGN LANGUAGE

American Sign Language Certificate (Transcribed) Program code: sac.sign.ca

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):

1. Students will maintain an ongoing dialogue in ASL at an intermediate conversational level.
2. Students will acquire an understanding of American Deaf culture that will allow them to interact in culturally appropriate ways with members of the American Deaf community.

Requirements for the certificate:

Course	Units
American Sign Language 110, American Sign Language I	4
American Sign Language 111, American Sign Language II	4
American Sign Language 113, Introduction to Interpreting for the Deaf	3
American Sign Language 114, Classifiers, Fingerspelling, and Numbering	3
American Sign Language, 116 Introduction to Deaf Studies	3
American Sign Language, 210 American Sign Language III	4
Child Development 107, Child Growth and Development (DSI) (3) —OR—	
Child Development 205, Introduction to Children with Special Needs (3) —OR—	
Psychology 157, Introduction to Child Psychology (3) —OR—	3
Psychology 170, Multicultural Psychology (3) —OR—	
Speech Language Pathology Assistant 160, Introduction to Communicative Disorders and Treatment (3) —OR—	
Theatre 110, Acting Fundamentals (3)	
Total	24

Administration of Justice

(See *Criminal Justice*)



ANTHROPOLOGY

Option 1

Anthropology Degree

Program code: sac.anth.aa

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. Consult a counselor for information about course requirements for specific universities.

Learning Outcome(s):

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.

Major requirements for the associate in arts degree:

Course	Units
Anthropology 100, Introduction to Cultural Anthropology	3
—OR—	
Anthropology 100H, Honors Introduction to Cultural Anthropology	
Anthropology 101, Introduction to Physical Anthropology	3
Anthropology 103, Introduction to Archeology	3
*Anthropology 104, Language and Culture	3
—OR—	
*Anthropology 104H, Honors Language and Culture	

In addition to the above requirements, an additional minimum of 6 units for the Anthropology Major may be taken from Category A or Category B below.

Category A

If your emphasis is cultural anthropology consider category A:

Anthropology 105, Ancient Mesoamerican Civilization	3
Anthropology 108, Religion, Magic, and Witchcraft	3
**Anthropology 125, Native Americans in the U.S.	3
Economics 120, Macroeconomics	3
Ethnic Studies 101, Introduction to Ethnic Studies	3
—OR—	
Ethnic Studies 101H, Honors Introduction to Ethnic Studies	
Geography 100, World Regional Geography	3
—OR—	
Geography 100H, Honors World Regional Geography	
Geography 102, Cultural Geography	3
—OR—	
Geography 102H, Honors Cultural Geography	
History 101, World Civilizations to the 16th Century	3
—OR—	
History 101H, Honors World Civilizations to the 16th Century	
Interdisciplinary Studies 117H, Honors Introduction to Global Studies	3
Psychology 100, Introduction to Psychology	3
—OR—	
Psychology 100H, Honors Introduction to Psychology	
Sociology 100, Introduction to Sociology	3
—OR—	
Sociology 100H, Honors Introduction to Sociology	
Women's Studies 101, Introduction to Women's Studies	3

Category B

If your emphasis is physical anthropology consider category B:

Anthropology 101L, Physical Anthropology Laboratory	1
Anthropology 107, Introduction to Forensic Anthropology	3
Biology 109, Fundamentals of Biology	3
—OR—	
Biology 109H, Honors Fundamentals of Biology	
Biology 109L, Fundamentals of Biology Laboratory	1
Biology 127, Ecology	1
Biology 149, Human Anatomy and Physiology	4
Biology 177, Human Genetics	3
Biology 211, Cellular and Molecular Biology	5
Biology 212, Animal Diversity and Ecology	5
Geology 101, Introduction to Geology	3
Geology 101L, Introduction to Geology Laboratory	1

It is strongly recommended that anthropology majors transferring to the CSU or UC system complete Foreign Language courses at the 201 and 202 level, and/or Mathematics 219/219H.

*Note: Anthropology 104 or 104H are alternately listed as English 104 or 104H.

**Note: Anthropology 105 and Anthropology 125 are alternately listed as History 105 and History 125.

Option 2

Associate in Arts Degree in Anthropology for Transfer

Program code: sac.anth.aat

The Associate in Arts in Anthropology for Transfer (A.A.-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 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 28 for a list of additional requirements for all Associate in Arts for Transfer (A.A.-T) and Associate in Science for Transfer (A.S.-T) degrees.** Upon completion of the Associate in Arts in Anthropology for Transfer (A.A.-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):

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 (9 units)	Units
Anthropology 100, Introduction to Cultural Anthropology	3
Anthropology 100H, Honors Introduction to Cultural Anthropology	3
Anthropology 101, Introduction to Physical Anthropology	3
Anthropology 103, Introduction to Archeology	3
List A: Select One (3 units)	3-4
Anthropology 104, Language and Culture (3)	
Anthropology 104H, Honors Language and Culture (3)	
Anthropology 101L, Physical Anthropology Laboratory (1)	
Social Science 219, Statistics and Probability (4)	
Social Science 219H, Honors Statistics and Probability (4)	
List B: Select One to Two (3-5 units)	3-5
Any course from List A not already used.	
Psychology 219, Introduction to Research Methods in Psychology (3)	
Biology 239, General Human Anatomy (4)	
Geology 101, Introduction to Geology (3)	
Geology 101L, Introduction to Geology Laboratory (1)	
Earth Science 110, Introduction to Earth Science (3)	
Earth Science 110H, Honors Introduction to Earth Science (3)	
Geology 140, Environmental Geology (3)	
Business Applications 150, Introduction to Geographic Information Systems (3)	
List C: Select One (3 units)	3
Any course from List A or B not already used.	
Anthropology 105, Ancient Mesoamerican Civilization (3)	
Anthropology 108, Religion, Magic, and Witchcraft (3)	
Anthropology 125, Native Americans in the U.S. (3)	
English 102, Literature and Composition (3)	
English 102H, Honors Literature and Composition (3)	
Sociology 100, Introduction to Sociology (3)	
Sociology 100H, Honors Introduction to Sociology (3)	
Geography 102, Cultural Geography (3)	
Philosophy 112, World Religions (3)	
Total	18-22

ARCHITECTURE

(See *Engineering-Drafting and Design Program Option II*)

ART

Option 1

Art Degree

Program code: sac.art.aa

The associate degree curriculum in art provides students with an opportunity for individual creative stimulus and development. Completion of the associate in 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 four-year 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):

1. Students will demonstrate visual literacy, including competency in the 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.

Major requirements for the associate in arts degree:

Course	Units
Art 100, Introduction to Art Concepts	3
Art 100H, Honors Introduction to Art Concepts	3
Art 101, Survey of Western Art History I	3
Art 102, Survey of Western Art History II	3
Art 105, History of Modern Art	3
Art 110, Two-Dimensional Design	3
Art 111, Three-Dimensional Design	3
Art 124, Gallery Production	2
Art 130, Introduction to Drawing	3
Art 131, Beginning Life Drawing	3
Art 141, Beginning Painting	3
Electives	3
Total	32

Electives are to be selected from the following:

Recommended electives: Art 009, 010, 103, 104, 106, 108, 121A, 121B, 122, 132A, 132B, 140A, 140B, 143, 150, 154, 155, 156, 157, 158, 159A, 159B, 164, 165, 166, 167, 182, 183, 188A, 188B, 195, 196A, 198, 230, 231, 232, 233, 234 or 234H, 240, 241, 242, 243, 250, 251, 252, 253, 282, 283, 298.

Option 2(A)

Associate in Arts in Art History for Transfer

Program code: sac.arth.aat

The Associate in Arts in Art History for Transfer (A.A.-T) prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree in Art History. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the A.A.-T degree also provides guaranteed admission with junior status to the CSU system, (admission is not guaranteed to a specific major or campus), along with priority admission consideration to the local CSU, Fullerton, in the Art History major. **See page 28 for a list of additional requirements for all Associate in Arts for Transfer (A.A.-T) and Associate in Science for Transfer (A.S.-T) degrees.** Upon completion of the A.A.-T in Art History, students will be able to recognize, distinguish and categorize major art achievements and their relationship to history and culture through formal analysis of art works, comparison and contrast of artistic styles, and general assessment of the cultural diversity of human artistic expressions and their meanings around the world in different eras by means of both oral and written assignments such as oral presentations, written essays, and general exams.

Learning Outcome(s):

1. Students will possess general knowledge of the monuments, movements and principal artists of major art periods of the past, including a broad understanding of the art of the twentieth century and acquaintance with the art history beyond Europe and the United States.
2. Students will demonstrate at the sophomore level skills in theory, analysis and criticism.
3. Students will demonstrate a working knowledge of the tools and techniques of scholarship and be experienced in analytical and critical writing as well as presenting their research orally.



Courses	Units
Required Core (9 units)	
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)	
Art 103, African Art History (3)	3
Art 104, Mexican and Chicano Art History (3)	
Art 106, Asian Art History (3)	
List B: Select One Course (3 units)	
Art 110, Two-Dimensional Design (3)	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)	
Photography 180, Beginning Photography (3)	
List C: Select One Course (3 units)	
Any course from List A or B not already used.	
Art 105, History of Modern Art (3)	3
Art 108, Contemporary Art History: Art Since Mid-Century (3)	
History 101, World Civilizations to the 16th Century (3)	
—OR—	
History 101H, Honors World Civilizations to the 16th Century (3)	
History 102, World Civilizations Since the 16th Century (3)	
—OR—	
History 102H, Honors World Civilizations Since the 16th Century (3)	
Interdisciplinary Studies 121, Humanities Through the Arts (3)	
Philosophy 112, World Religions (3)	
Total	18

Option 2(B)

Associate in Arts in Studio Arts for Transfer Program code: sac.start.aat

The Associate in Arts in Studio Arts for Transfer (A.A.-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 A.A.-T degree also provides guaranteed admission with junior status to the CSU system, (admission is not guaranteed to a specific major or campus), along with priority admission consideration to the local CSU in the Studio Arts major. **See page 28 for a list of additional requirements for all Associate in Arts for Transfer (A.A.-T) and Associate in Science for Transfer (A.S.-T) degrees.** Upon completion of the A.A.-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. Students will possess technical skills (at the sophomore level) for producing art in several media.
2. Students will demonstrate competency and acquire experience in creating original work for public display.
3. Students will demonstrate competency in critical analysis and verbal and written responses to visual phenomena.

Courses	Units
Required Core (12 units)	
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)	
Art 101, Survey of Western Art History I: Prehistory through the Middle Ages (3)	3
Art 103, African Art History (3)	
Art 104, Mexican and Chicano Art History (3)	
Art 105, History of Modern Art (3)	
Art 106, Asian Art History (3)	
—OR—	
List B: Select Three Courses (9 units)	
Art 131, Beginning Life Drawing (3)	9
—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)	
Photography 180, Beginning Photography (3)	
Total	

Crafts Option Certificate

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 ceramics/crafts. This program is primarily designed to prepare art students as freelance artists/craftsmen.

Crafts Certificate A-Jewelry Emphasis Certificate (Transcripted)

Program code: sac.artjw.ca

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 acquire the aesthetic knowledge and technical skills (including stone-setting and enameling) necessary to become a freelance artist/craftsman who creates hand-crafted jewelry.

Course	Units
Art 130, Introduction to Drawing	3
Art 182, Introduction to Jewelry	3
Art 282, Jewelry	3
Art 283, Advanced Jewelry	3
Art 284, Introduction to Stone Setting-Jewelry	2
Art 285, Introduction to Enameling-Jewelry	2
Total	16



Crafts Certificate D-Ceramics Emphasis Certificate (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.

Course	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

Art-Graphic Design Degree

Program code: sac.artgd.aa

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.

Degree Program A emphasizes skills for entry level employment in advertising agencies, print houses, design studios, freelance work, and related businesses. It also prepares students to apply to a four-year institution leading to a baccalaureate degree or into a professional art school with a graphic design emphasis. Degree Program B is specifically geared for students to transfer to a state university leading to a baccalaureate degree with more intense study of graphic design skills and applications. Completion of this associate degree also provides for entry into a profession in a variety of areas: e.g., advertising agency, printing house, design studio, freelance work and related businesses. Students planning for transfer should be aware that each university has unique degree requirements. Please consult a SAC counselor for information about course requirements for particular four-year institutions.

Major requirements for the associate in arts or science degree in Graphic Design:

Degree Program A-Professional Emphasis Or Transfer Preparation To Art School

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 acquire competency and experience in creating original work for public display.

Course	Units
Art 100, Introduction to Art Concepts	3
—OR—	
Art 100H, Honors Introduction to Art Concepts	
Art 105, History of Modern Art	3
Art 110, Two-Dimensional Design	3
Art 111, Three-Dimensional Design	3
Art 121A, Fundamentals of Typography	3
Art 121B, Advanced Typography	3
Art 122, Graphic Design I	3
Art 130, Introduction to Drawing	3
Art 168, Digital Media: Portfolio and Business Strategies	3
Photography 180, Beginning Photography	3
Electives	3
Total	33

Plus a minimum of 3 units from the following electives: Art 009, 010, 131, 140A, 195, 198, 221, 230, 298; Communications & Media Studies 123; Television/Video Communications 105 or 105H.

Degree Program B-Transfer to State University

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 acquire competency and experience in creating original work for public display.

Course	Units
Art 100, Introduction to Art Concepts	3
—OR—	
Art 100H, Honors Introduction to Art Concepts	
Art 101, Survey of Western Art History I	3
Art 102, Survey of Western Art History II	3
Art 105, History of Modern Art	3
Art 110, Two-Dimensional Design	3
Art 111, Three-Dimensional Design	3
Art 121A, Fundamentals of Typography	3
Art 121B, Advanced Typography	3
Art 130, Introduction to Drawing	3
Art 131, Beginning Life Drawing	3
Art 141, Beginning Painting	3
Art 168, Digital Media: Portfolio and Business Strategies	3
Electives	3
Total	39

Plus a minimum of 3 units from the following electives: Art 009, 010, 122, 123, 132A, 140A, 195, 198, 221, 230, 298; Communications & Media Studies 123; Photography 180.

3D Modeling and Animation A-Art Emphasis Certificate (Transcripted)

Program code: sac.art3a.ca

The certificate program in 3D 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.

The certificate program is designed to develop the core technical skills required for these vast arenas of applications. Employment opportunities exist with small and large companies serving a broad spectrum of clientele in the delivery of still, animated, and interactive presentations.

**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 3-D animation and modeling.

Course	Units
Art 166, Creating Realism with Textures and Lights	3
Art 167, 3D Commercial Applications	3
Art 184, Art of Animation I	
—OR—	
Art 185, Fundamentals of Cartooning and Storyboarding	3
—OR—	
Art 195, Introduction to Digital Media Arts	
Art 196A, 3D Modeling	5
Art 197A, 3D Animation	5
Art 296, Professional Art Production	1.5

Plus 3 units from the elective list below

Art 131, Beginning Life Drawing (3)	
Art 141, Beginning Painting (3)	3
Art 165, 3D Character Animation (3)	
Art 180, Video Game & Interactive Media Art (3)	
Total	23.5

3D Modeling and Animation C-Video Game and Interactive Media Art Emphasis Certificate (Transcripted)

Program code: sac.art3c.ca

The certificates offered in the 3D Modeling and Animation program address the fundamental requirements that 3D artists are expected to know for entry-level positions in animation studios, the field of television advertising, video games, and bioscience, product, industrial and architectural design industries. The certificate program is designed to develop the core technical skills required for these vast arenas of applications. Employment opportunities exist with small and large companies serving a broad spectrum of clientele in the delivery of still, animated, and interactive.

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 3-D animation and modeling.

Course	Units
Art 166, Creating Realism with Textures and Lights	3
Art 167, 3D Commercial Applications	3
Art 180, Video Game & Interactive Media Art	3
Art 184, Art of Animation I (3)	
—OR—	
Art 185, Fundamentals of Cartooning and Storyboarding (3)	3
—OR—	
Art 195, Introduction to Digital Media Arts (3)	
Art 196A, 3D Modeling Fundamentals	5
Art 197A, 3D Animation Fundamentals	5
Art 296, Professional Art Production	1.5

Plus 3 units from the elective list below

Art 131 Beginning Life Drawing (3)	3
Art 141 Beginning Painting (3)	
Art 165 3D Character Animation (3)	
Computer Science 105, Visual BASIC Programming(3)	
Computer Science 118, JavaScript Programming (3)	
Total	26.5

3D Modeling and Animation Certificate D-Visualization Emphasis Certificate (Transcripted)

Program code: sac.art3d.ca

Designed to prepare students for careers in the area of previsualization (previs) and visualization (vis) as 3D artists and animators. Previs used by film production studios, city planners, architects, inventors, and marketing departments.

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 3-D animation and modeling.

Complete these Core Required Courses:	Units
Art 166, Creating Realism with Textures and Lights	3
Art 167, 3D Commercial Applications	3
Art 184, Art of Animation I	
—OR—	
Art 195, Introduction to Digital Media Arts	3
Art 196A, 3D Modeling	5
Art 197A, 3D Animation	5
Art 296, Professional Art Production	1.5

Plus 3 units from the elective list below

Art 131, Beginning Life Drawing (3)	
Art 162, Digital Design with Photoshop-I (3)	3
Art 163, Digital Design with Photoshop-II (3)	
Art 165, 3D Character Animation (3)	
Engineering 103, Solidworks Basic Solid Modeling (3)	
Engineering 183, AutoCAD I - Computer Aided Drafting (3)	

Choose electives from the list below:

Art 100, Introduction to Art Concepts (3)	
—OR—	
Art 100H, Honors Introduction to Art Concepts (3)	
Art 122, Graphic Design I (3)	
Art 131, Beginning Life Drawing (3)	3
Art 141, Beginning Painting (3)	
Art 164, Web Design (3)	
Art 165, 3D Character Animation (3)	
Total	26.5

Art-Digital Media Arts Degree

Program code: sac.artdm.aa

The associate degree program in Art-Digital Media Arts merges fine arts and technical knowledge required to develop skills necessary in two areas: graphic design and web design. Completion of the associate degree prepares students to move into curriculum at a four-year institution leading to a baccalaureate degree or into a professional art school with an emphasis in digital media art. Please consult a SAC counselor for information about course requirements for particular four-year institutions. Completion of the associate degree also provides for entry into a profession in a variety of areas: advertising agency, printing business, design studio, web production, freelance designer or related fields.

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 acquire competency and experience in creating original work for public display.



Major requirements for the associate in arts in Digital Media Arts:

Courses	Units
Art 100, Introduction to Art Concepts —OR—	
Art 100H, Honors Introduction to Art Concepts —OR—	3
Art 107, History of Animation	
Art 110, Two-Dimensional Design	3
Art 121A, Fundamentals of Typography	3
Art 122, Graphic Design I	3
Art 129, Computer Science 155, Graphic Design Concepts for the Web	3
Art 130, Introduction to Drawing	3
Art 162, Digital Design with Photoshop-I	3
Art 168, Digital Media: Portfolio and Business Strategies	3
Art 191A, Digital Publishing with InDesign	3
Art 192A, Digital Illustration with Illustrator	3
Art 195, Introduction to Digital Media Arts	3
Choose electives from the list below:	
Art 009, Art Lab (0.5)	
Art 101, Survey of Western Art History I: Prehistory through the Middle Ages (3)	
Art 111, Three-Dimensional Design (3)	
Art 121B, Advanced Typography (3)	
Art 125, Cooperative Work Experience - Occupational (1-16)	
Art 131, Beginning Life Drawing (3)	
Art 141, Beginning Painting (3)	
Art 193, Motion Graphics with Adobe After Effects (3)	3
Art 196A, 3D Modeling Fundamentals (5)	
Art 197A, 3D Animation Fundamentals (5)	
Art 221, Graphic Design II (3)	
Art 230, Intermediate Drawing (3)	
Computer Science 100, The Computer and Society (3)	
Photography 180, Beginning Photography (3)	
Photography 191, Intermediate Digital Photography (3)	
Total	36

Art Digital Media Arts Certificate

The certificate programs in digital arts reflect the rapidly changing industry of the advertising/graphic design field in relation to graphic design for printed media, the impact of web design on e-commerce, and the integration of motion graphics into this field. The programs are designed with a combination of courses from fine art and digital media to develop technical skills and creativity in the areas of digital imaging, electronic page layout, graphic principles of web design, and interactive design for multimedia. Graduates of these programs will find entry into the profession at various levels with employment opportunities in the fields of advertising, graphic design, printing industry, and e-commerce.

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 2-D design and Photoshop.

Requirements for the certificate:

Core courses	Units
Art 100, Introduction to Art Concepts —OR—	
Art 100H, Honors Introduction to Art Concepts	3
Art 110, Two-Dimensional Design	3
Art 162, Digital Design with Photoshop-I	3
Art 195, Introduction to Digital Media Arts	3
Total	12

Digital Media Arts A-Graphic Design Emphasis Certificate (Transcripted) Program code: sac.artdgc.ca

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 graphic design, digital publishing and digital illustration.

Course	Units
Core courses (See above)	12
Art 121A, Fundamentals of Typography	3
Art 122, Graphic Design I	3
Art 130, Introduction to Drawing	3
Art 168, Digital Media: Portfolio and Business Strategies	3
Art 191A, Digital Publishing with InDesign	3
Art 192A, Digital Illustration with Illustrator	3
Total	30

Digital Media Arts B-Web Design Emphasis Certificate (Transcripted) Program code: sac.artdw.ca

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 graphic design, digital illustration and web design.

Course	Units
Core courses (See above)	12
Art 121A, Fundamentals of Typography	3
Art 122, Graphic Design I	3
Art 129, Graphic Design Concepts for the Web	3
Art 164, Web Design with Flash	3
Art 168, Digital Media: Portfolio and Business Strategies	3
Art 192A, Digital Illustration with Illustrator	3
Total	30

Public and Community Art - Mural Painting Certificate (Transcripted) Program Code: sac.artmu.ca

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):

- Demonstrate visual literacy, including competency in the non-verbal languages of art and design
- Demonstrate competency in critical analysis and verbal and written responses to visual phenomena
- Demonstrate competency in skills necessary for mural painting including large scale rendering, wall preparation and safety protocols
- Competency and experience in the production process of creating original work on deadline for mural projects

Complete Core Required Courses:

Course	Units
Art 110, Two-Dimensional Design	3
Art 130, Introduction to Drawing (3) —OR—	3
Art 141, Beginning Painting (3)	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 the elective list below:

Art 122, Graphic Design I (3)	
Art 124, Gallery Production (2)	
Art 158, Ceramic Mural Project (3)	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	
Total	23-24

AUTOMOTIVE TECHNOLOGY

Automotive Technology Degree Program code: sac.auto.as

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. Students will successfully pass a comprehensive online course on Shop Safety.
2. Students will successfully pass a comprehensive online course on Shop Environmental Concerns.

Major requirements for the associate in science degree:

Course	Units
Automotive Technology 102, Auto Essentials (3) —OR—	3-4
Automotive Technology 106, Automotive Maintenance (4)	

Plus 25 units selected from the following: 25

Automotive Technology 108, Oxyacetylene-Arc Welding (3)	
Automotive Technology 122, Electronics Fundamentals (5)	
Automotive Technology 124, Electrical Systems (5)	
Automotive Technology 132, Engine Performance (5)	
Automotive Technology 143, Automatic Transmission Service (4)	
Automotive Technology 144, Manual Drive Train and Axles (4)	
Automotive Technology 145, Advanced Drive Train Systems (5)	
Automotive Technology 154, Steering and Suspension Service (4.5)	
Automotive Technology 153, Brakes (4.5)	
Automotive Technology 160, Foundations of Mobile Air Conditioning and Refrigeration (5)	
Automotive Technology 161, Automotive Air Conditioning, Heating and Ventilation Systems (5)	
Automotive Technology 172, Engine Diagnosis and Maintenance (4.5)	
Automotive Technology 176, Engine Repair (4.5)	
Automotive Technology 185, Basic Clean Air Car Course (5)	
Automotive Technology 186, Advanced Clean Air Car Course (2)	
Automotive Technology 187, BAR Specified Diagnostic and Repair (5)	
Automotive Technology 280, Computer Control and OBD-2 Foundations (3)	
Automotive Technology 281, Fuel Injection Systems (3)	
Automotive Technology 282, Automotive Sensors (3)	
Automotive Technology 283, Diagnostic Test Equipment (3)	
Automotive Technology 284, OBD-2 Diagnosis and Networks (3)	
Automotive Technology 285, Hybrid Vehicles (3)	
Automotive Technology 287, Alternative Fuels (3)	
Automotive Technology 288, Diesel Engines: Light-Medium Duty Systems (3)	
Total	28-29

Advanced Engine Performance Option Certificate (Transcripted) Program code: sac.autae.ca

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 and Electrical Option Certificate or have an equivalent trade experience.

Learning Outcome(s):

1. Students will successfully pass a comprehensive online course on Shop Safety.
2. Students will successfully pass a comprehensive online course on Shop Environmental Concerns.

Choose 15 units from courses listed below:

Course	Units
Automotive Technology 280, Computer Control and OBD-2 Foundations	3
Automotive Technology 281, Fuel Injection Systems	3
Automotive Technology 282, Automotive Sensors	3
Automotive Technology 283, Diagnostic Test Equipment	3
Automotive Technology 284, OBD-2 Diagnosis and Networks	3
Total	15



Automotive Business Technology Certificate (Transcripted)

Program code: sac.autbu.ca

The certificate curriculum in Automotive Business Technology is designed to prepare the student to better understand the business of automotive technology. The student completes automotive courses in their area of interest, such as Air Conditioning & Heating, Fuel Injection Systems, Electrical Systems, etc., as well as essential business courses in Accounting, Management, Small Business Operations, or Marketing. Students would be qualified for entry level positions as Automotive Service Technicians and Mechanics 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 technical and business aspects of the automotive industry.

Learning Outcome(s):

1. Students will successfully pass a comprehensive online course on Shop Safety.
2. Students will successfully pass a comprehensive online course on Shop Environmental Concerns.

Core Courses	Units
Automotive Technology 122, Electronics Fundamentals	5
Business 100, Fundamentals of Business	3

Electives: 9 Units. Select electives from the following list: 9

- Automotive Technology 124, Electrical Systems (5)
- Automotive Technology 132, Engine Performance (5)
- Automotive Technology 143, Automatic Transmission Service (4)
- Automotive Technology 144, Manual Drive Train and Axles (4)
- Automotive Technology 145, Advanced Drive Train Systems (5)
- Automotive Technology 153, Brakes (4.5)
- Automotive Technology 154, Steering and Suspension Service (4.5)
- Automotive Technology 160, Foundations of Mobile Air Conditioning and Refrigeration (5)
- Automotive Technology 161, Automotive Air Conditioning, Heating and Ventilation Systems (5)
- Automotive Technology 172, Engine Diagnosis and Maintenance (4.5)
- Automotive Technology 176, Engine Repair (4.5)
- Automotive Technology 185, Basic Clean Air Car Course (5)
- Automotive Technology 186, Advanced Clean Air Car Course (2)
- Automotive Technology 187, BAR Specified Diagnostic and Repair (5)
- Automotive Technology 280, Computer Control and OBD-2 Foundations (3)
- Automotive Technology 281, Fuel Injection Systems (3)
- Automotive Technology 282, Automotive Sensors (3)
- Automotive Technology 283, Diagnostic Test Equipment (3)
- Automotive Technology 284, OBD-2 Diagnosis and Networks (3)
- Automotive Technology 285, Hybrid Vehicles (3)
- Automotive Technology 287, Alternative Fuels (3)
- Automotive Technology 288, Diesel Engines: Light-Medium Duty Systems (3)

Electives: 3 Units. Select electives from the following list:	3
Accounting 010, Accounting Procedures (3)	
Business 120, Principles of Management (3)	
Business 170, Principles of Small Business Management (3)	
Marketing 113, Principles of Marketing (3)	

Total 20

Chassis Service Option Certificate (Transcripted)

Program code: sac.autcs.ca

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. Students will successfully pass a comprehensive online course on Shop Safety.
2. Students will successfully pass a comprehensive online course on Shop Environmental Concerns.

Major requirements for the certificate:

Course	Units
Automotive Technology 102, Auto Essentials (3)	
-OR-	
Automotive Technology 106, Automotive Maintenance (4)	3-4
Automotive Technology 122, Electronic Fundamentals	5
Automotive Technology 153, Brakes	4.5
Automotive Technology 154, Front Ends	4.5
Total	17-18

Drive Train Service Option Certificate (Transcripted)

Program code: sac.autdt.ca

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. Students will successfully pass a comprehensive online course on Shop Safety.
2. Students will successfully pass a comprehensive online course on Shop Environmental Concerns.

Major requirements for the certificate:

Course	Units
Automotive Technology 102, Auto Essentials (3)	
-OR-	
Automotive Technology 106, Automotive Maintenance (4)	3-4
Automotive Technology 122, Electronics Fundamentals	5
Automotive Technology 143, Automatic Transmission Service (4)	
-OR-	
Automotive Technology 144, Manual Drive Train and Axles (4)	4
Automotive Technology 145, Advanced Drivetrain Systems	5
Total	17-18

Engine Performance and Electrical Option Certificate (Transcripted)

Program code: sac.autep.ca

The certificate curriculum in tune-up and electrical service engine performance 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):

1. Students will successfully pass a comprehensive online course on Shop Safety.
2. Students will successfully pass a comprehensive online course on Shop Environmental Concerns.

**Major requirements for the certificate:**

Course	Units
Automotive Technology 122, Electronic Fundamentals	5
Automotive Technology 124, Electrical Systems	5
Automotive Technology 132, Engine Performance	5
Automotive Technology 160, Foundations of Mobile Air Conditioning and Refrigeration (5) —OR—	5
Automotive Technology 161, Automotive Air Conditioning, Heating and Ventilation Systems (5)	
Total	20

Engine Service Option Certificate (Transcripted)**Program code: sac.ates.ca**

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. Students will successfully pass a comprehensive online course on Shop Safety.
2. Students will successfully pass a comprehensive online course on Shop Environmental Concerns.

Requirements for the certificate:

Course	Units
Automotive Technology 102, Auto Essentials (3) —OR—	3-4
Automotive Technology 106, Automotive Maintenance (4)	5
Automotive Technology 122, Electronic Fundamentals	4.5
Automotive Technology 172, Engine Diagnosis and Maintenance	4.5
Automotive Technology 176, Engine Repair	
Total	17-18

Automotive Air Conditioning Maintenance Certificate (Untranscripted)**Program code: sac.auacs.cert**

The Automotive Air Conditioning Maintenance Certificate is designed to prepare the student for employment in industry, servicing modern automotive air conditioning systems. Air conditioning theory, refrigerant handling, and practical hands-on experience are emphasized. This training assists the student in preparation for national ASE A6 and EPA 609 certification.

Learning Outcome(s):

Students will demonstrate a working knowledge of modern automotive air conditioning systems. Students will be trained in correct use of automotive air conditioning equipment and diagnostic procedures.

Requirements for the certificate:

Course	Units
Automotive Technology 160, Foundations of Mobile Air Conditioning and Refrigeration	5
Automotive Technology 161, Automotive Air Conditioning, Heating and Ventilation Systems	5
Total	10

Alternative Fuels and Hybrid Maintenance (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.

Requirements for the certificate:

Course	Units
Automotive Technology 285, Hybrid Vehicles	3
Automotive Technology 287, Alternative Fuels	3
Automotive Technology 288, Diesel Engines: Light-Medium Duty Systems	3
Total	9

Automotive Chassis Maintenance (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.

Requirements for the certificate:

Course	Units
Automotive Technology 153, Brakes	4.5
Automotive Technology 154, Steering and Suspension Service	4.5
Total	9

Automotive Electrical Maintenance (Untranscripted)**Program code: sac.autel.cert**

The Automotive Electrical Maintenance Certificate prepares the student for electrical concerns on modern vehicles. Hands-on use of digital multimeters and wiring diagrams are emphasized. This training assists the student in preparation for national ASE A6 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.

Requirements for the certificate:

Course	Units
Automotive Technology 122, Electronics Fundamentals	5
Automotive Technology 124, Electrical Systems	5
Total	10



Automotive Engine Maintenance Certificate (Untranscribed)

Program code: sac.auten.cert

The Automotive Engine Maintenance Certificate is designed to prepare the student for employment diagnosing and servicing automotive engines. Practical hands-on experience in engine diagnosis, measurement, teardown, and assembly are emphasized. This training assists the student in preparation for national ASE A1 Engine Repair certification.

Learning Outcome(s):

1. Learning about current engine maintenance 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.

Requirements for the certificate:

Course	Units
Automotive Technology 172, Engine Diagnosis and Maintenance	4.5
Automotive Technology 176, Engine Repair	4.5
Total	9

BIOLOGY

Option 1

Biological Science Degree

Program code: sac.biol.as

The associate degree in biological science prepares students for pre-professional 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.

Major requirements for the associate in arts or science degree:

Course	Units
Biology 211, Cellular and Molecular Biology	5
Biology 212, Animal Diversity and Ecology	5
Biology 214, Plant Diversity and Evolution	5
—OR—	
Biology 290, Biochemistry and Molecular Biology	5
Chemistry 229, General Chemistry and Qualitative Analysis	5

Select a minimum of 3 units from the following electives:

Biology 127, Ecology (1)	3
Biology 128, Natural History of the California Coast (1)	
Biology 132, Natural History of Death Valley (1)	
Biology 133, Desert Biology (1)	
Biology 139, Health Microbiology (4)	
Biology 149, Human Anatomy and Physiology (4)	
Biology 169, Natural History of the Sierra Nevada (1-3)	
Biology 177, Human Genetics (3)	
Biology 217, Pathophysiology (2)	
Biology 229, General Microbiology (5)	
Biology 239, General Human Anatomy (4)	
Biology 249, Human Physiology (4)	
Biology 259, Environmental Biology (4)	
Biology 129, Ecology of Southern California (1)	
Biology 131, Natural History of the Southwest (3)	
Biology 170, Environmental Challenge of the 21st Century (1)	
Total	23

Option 2

Associate in Science in Biology for Transfer

Program code: sac.biol.ast

The Biology Associate in Science for Transfer degree (A.S.-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 A.S.-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 28 for a list of additional requirements for all Associate in Arts for transfer (A.A.-T) and Associate in Science for Transfer (A.S.-T) degrees. Students earning a Biology A.S.-T must select either the IGETC for STEM or CSU-GE for STEM to complete the general education requirement.* Upon completion of the Biology A.S.-T degree, students will have the necessary foundation for upper division coursework as biology majors. The Biology A.S.-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
Biology 211, Cellular and Molecular Biology	5
Biology 212, Animal Diversity and Ecology	5
Biology 214, Plant Diversity and Evolution	5

List A

Chemistry 219, General Chemistry	5
—OR—	
Chemistry 219H, Honors General Chemistry	5
Chemistry 229, General Chemistry and Qualitative Analysis	5
Physics 279, College Physics I (4)	5
—AND—	
Physics 289, College Physics II (4)	5
—OR—	
Physics 217, Engineering Physics I (4)	8
—AND—	
Physics 227, Engineering Physics II (4)	8
Mathematics 180, Analytic Geometry and Calculus	4
—OR—	
Mathematics 180H, Honors Analytic Geometry and Calculus	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 Program code: sac.biot.as

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 understand the importance of soft skills in the workplace.
2. Students will be familiar with current good practice quality guidelines and regulations (cGMPs) used in the Biotechnology and Bioscience Industries.
3. Students will be proficient in laboratory skills necessary to obtain entry level jobs in the Biotechnology and Bioscience fields.

Required Courses	Units
Biology 190, Introduction to Biotechnology	3
Biology 190L, Introductory Biotech Lab	1
Biology 191, Biotech A: Basic Skills	4
Chemistry 209, Introductory Chemistry	4
Biology 192, Biotech B: Proteins	4
Biology 194, Quality and Regulatory Compliance in Biosciences	2
Chemistry 219, General Chemistry —OR—	5
Chemistry 219H, Honors General Chemistry	
Biology 211, Cellular and Molecular Biology	5
Biology 193, Biotech C: Nucleic Acids	4
Total	32

Biotechnology Lab Assistant Certificate (Untranscribed) Program code: sac.btlf.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 have a fundamental overview of the applications and underlying principles of biotechnology.
2. Students will know how to operate and maintain standard laboratory equipment.
3. Students will have the knowledge and laboratory skills necessary to obtain entry level jobs in biotechnology.

Required Courses	Units
Biology 190, Introduction to Biotechnology	3
Biology 190L, Introductory Biotech Lab	1
Biology 191, Biotech A: Basic Skills	4
Chemistry 209, Introductory Chemistry	4
Total	12

Biotechnology Biomanufacturing Technician Certificate (Transcribed) Program Code: sac.btmft.ca

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.
2. Students will have the knowledge and laboratory skills necessary to obtain an entry level biomanufacturing job.

Core Courses	Units
Biology 192, Biotech B: Proteins	4
Biology 194, Quality and Regulatory Compliance in Biosciences	2
Chemistry 219, General Chemistry —OR—	5
Chemistry 219H, Honors General Chemistry	
Total	11

Biotechnology Laboratory Technician Certificate (Transcribed) Program Code: sac.biola.ca

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 or expression vector.
2. Students will have the knowledge and laboratory skills necessary to obtain entry level jobs as a biotechnician.

Core Courses	Units
Biology 193, Biotech C: Nucleic Acids	4
Biology 202, Cell Culture Techniques	2
At least 8 units from the following list	8-10
Biology 139, Health Microbiology (4)	
Biology 177, Human Genetics (3)	
Biology 197, STEM Internship/Work Experience (1-4)	
Biology 211, Cellular and Molecular Biology (5)	
Biology 229, General Microbiology (5)	
Biology 290, Biochemistry and Molecular Biology (5)	
Chemistry 229, General Chemistry and Qualitative Analysis (5)	
Total	14-16

Biotechnology Laboratory Technician: QA/QC Microbiology Certificate (Transcribed) Program Code: sac.btlqc.ca

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. Students will learn an overview of the process of quality assurance and regulatory compliance used in the bioscience industry.
2. Students will learn how to perform advanced aspects of aseptic technique.
3. Students will have the knowledge and laboratory skills necessary to obtain entry level jobs in QC and QA microbiology.

Core Courses	Units
Biology 193, Biotech C: Nucleic Acids	4
Biology 202, Cell Culture Techniques	2
Biology 195, Biotech: QC Microbiology	2
Biology 197, STEM Internship/ Work Experience	1
Biology 229, General Microbiology	5
Total	14



BLACK STUDIES

Black Studies Degree Program code: sac.blst.aa

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):

Students will demonstrate an understanding of the history, development, and role of black culture in America.

Requirements for the associate in arts degree:

Course	Units
Art 103, African Art History	3
Black Studies 101, Introduction to Black Studies	3
Ethnic Studies 101, Introduction to Ethnic Studies	3
—OR—	
Ethnic Studies 101H, Honors Introduction to Ethnic Studies	
History 123, History of Black People in the United States	3
History 146, Black People in Twentieth Century America	3
Music 103, Jazz in America	3
Total	24

A minimum of six (6) units (but, no more than three (3) units from any one discipline) taken from the following list:

Anthropology 100 or 100H, 104 or 104H, 105, 125; Chicano Studies 101; Dance 105, 112; English 104 or 104H, 245; History 101 or 101H, 102 or 102H, 181; Child Development 221; Music 102; Sociology 100 or 100H.

BUSINESS

Option 1 Business Administration Degree Program code: sac.bus.as

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):

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 4 year university as a business administration major.

Core courses for the associate in arts or science degree:

Course	Units
Accounting 101, Financial Accounting	4
Accounting 102, Managerial Accounting	4
Business 150, Introduction to Information Systems and Applications	3
Business 222, Business Writing	3
Economics 120, Principles/Macro	3
Economics 121, Principles/Micro	3

Select one of the following

Business 101, Business Law* (see note) (3)

—OR—

Business 105, Legal Environment of Business* (3)

Select one of the following courses** (see note):

Business 100, Fundamentals of Business (3)
 Business 120, Principles of Management (3)
 Business 125, Introduction to International Business (3)
 Business 140, Principles of Finance (3)
 Marketing 113, Principles of Marketing (3)
 Management 120, Principles of Management (3)
 Mathematics 150, Calculus for Biological, Management and Social Sciences (4)

Total 26-27

*Students planning for university transfer should be aware that some universities only accept Business 101 for the transfer major (e.g. California State University, Long Beach) while others only accept Business 105 (e.g. California State University, Fullerton) for the transfer major. Please consult the Transfer Planning Guide and meet with a counselor for information about specific universities.

**Students planning for university transfer should be aware that California State University, Fullerton and many other universities require Mathematics 150 for the Business Administration degree. Please consult the Transfer Planning Guide and meet with a counselor for information about specific universities.

Numerous California State University campuses and private colleges and universities offer baccalaureate degrees in Business Administration. In the University of California system, UC Berkeley and UC Riverside offer this degree. Consult the Transfer Planning Guide and meet with a counselor for information about specific programs and transfer requirements.

Option 2 Associate in Science in Business Administration for Transfer Program code: sac.bus.ast

The Associate in Science in Business Administration for Transfer (A.S.-T) prepares students to move into the CSU system leading to a baccalaureate degree in Business Administration. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the A.S.-T degree also provides guaranteed admission with junior status to the CSU system although does not guarantee acceptance to a particular campus or major. **See page 28 for a list of additional requirements for all Associate in Arts for Transfer (A.A.-T) and Associate in Science for Transfer (A.S.-T) degrees.** Upon completion of the A.S.-T 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 sufficient understanding of mathematical concepts to enable them to successfully pursue a baccalaureate degree. The A.S.-T degree in Business Administration is also appropriate for students whose vocational plans include careers in business fields such as accounting, computer information systems, finance, management, marketing and other business fields.

**Learning Outcome(s):**

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.

Courses	Units
Required Core (17 units)	
Accounting 101, Financial Accounting	4
Accounting 102, Managerial Accounting	4
Economics 120, Principles/Macro	3
Economics 121, Principles/Micro	3
Business 101, Business Law	3
Business 105, Legal Environment of Business	3
List A: Select one of the following courses. (4 units)	
Mathematics 145, Finite Mathematics (4)	
Mathematics 150, Calculus for Biological, Management and Social Sciences (4)	
—OR—	
Mathematics 180, Analytic Geometry and Calculus (4)	4
—OR—	
Mathematics 180H, Honors Analytic Geometry and Calculus (4)	
Mathematics 219, Statistics and Probability (4)	
—OR—	
Mathematics 219H, Honors Statistics and Probability (4)	
—OR—	
Social Science 219, Statistics and Probability (4)	
—OR—	
Social Science 219H, Honors Statistics and Probability (4)	
List B: Select two courses from the list below or from any course from List A that has not already been used. (6 units)	
Business 150, Introduction to Information Systems and Applications (3)	6
—OR—	
Computer Science 100, The Computer and Society (3)	
Business 100, Fundamentals of Business (3)	
—OR—	
Business 222, Business Writing (3)	
Total	27

BUSINESS APPLICATIONS AND TECHNOLOGY

General Business Applications and Technology Degree Program code: sac.ba.aa

This degree program is designed to prepare students for employment as an administrative staff for any size company from small business offices to large corporate organizations. Training includes knowledge and skill development to meet the demands of current business standards and technology, office procedures, and office administration.

Learning Outcome(s):

Students will be prepared for employment as an administrative staff for any size company from small business offices to large corporate organizations with training that encompasses knowledge and skill development to meet the demands of current business standards and technology, office procedures, business mathematics, and office administration.

Major requirements for the associate in arts or science degree:

Course	Units
Business Applications 017, Business Writing Skills (3)	
—OR—	
Management 122, Business Communications (3)	3
—OR—	
Business 222, Business Writing (3)	
Business Applications 120, Administrative Office Management	3
Business Applications 018, Office Procedures (3)	
—OR—	
Business Applications 066, Microsoft Outlook (1.5)	1.5-3
Business Applications 035, Computer Fundamentals	1.5
Business Applications 115A, Computer Keyboarding Speed and Accuracy Development I	1
Business Applications 147, Introduction to Windows	1.5
Business Applications 179, Introduction to Microsoft Office	4
Business 080, Business Mathematics	3
Select 6 units from the following courses:	6
Business Applications 043, Microsoft Certified Application Specialist Preparation (0.5)	
Business Applications 049, Introduction to Microsoft Access (1.5)	
Business Applications 160, Microsoft Publisher (3)	
Business Applications 180, Advanced Microsoft Office (3)	
Business Applications 183, Microsoft Word (3)	
Business Applications 188, Microsoft Excel (1.5)	
Business Applications 189, Excel Application Projects (1.5)	
Business Applications 190, Microsoft PowerPoint (1.5)	
Business Applications 191, PowerPoint – Application Projects (1.5)	
Select 3 units from the following elective courses:	3
Business Applications 125, Microsoft Word Basics (1.5)	
Business Applications 163, Adobe Acrobat (3)	
Business Applications 164, Adobe Photoshop (3)	
Business Applications 170, Adobe InDesign (3)	
Business Applications 177, Microsoft OneNote (1.5)	
Business Applications 184, Advanced Microsoft Word for the Workplace (3)	
Total	27.5-29

General Business Applications and Technology Certificate (Transcripted) Program code: sac.ba.ca

This certificate program is designed to prepare students for employment as an administrative staff for any sized company from small business offices to large corporate organizations. Training includes knowledge and skill development to meet the demands of current business standards and technology, office procedures and office administration.

Learning Outcome(s):

Students will demonstrate knowledge and competency to successfully work as an administrative support staff for a company of any sector or size with general knowledge and skill in business writing, office procedures business mathematics, and Microsoft Office applications.

**Requirements for the certificate:**

Course	Units
Business Applications 017, Business Writing Skills (3)	
—OR—	
Management 122, Business Communications (3)	3
—OR—	
Business 222, Business Writing (3)	
Business Applications 018, Office Procedures (3)	
—OR—	
Business Applications 120, Administrative Office Management (3)	3
Business Applications 035, Computer Fundamentals	1.5
Business Applications 110A, Computer Keyboarding Skills I (1)	
—OR—	
Business Applications 115A, Computer Keyboarding Speed and Accuracy Development I (1)	1
Business Applications 147, Introduction to Windows	1.5
Business Applications 183, Microsoft Word	3
Business Applications 188, Microsoft Excel	1.5
Business Applications 189, Excel Application Projects	1.5
Business 080, Business Mathematics	3

Select 3 units from the following elective courses: 3

Business Applications 043, Microsoft Certified Application Specialist Preparation (0.5)	
Business Applications 049, Introduction to Microsoft Access (1.5)	
Business Applications 066, Microsoft Outlook (1.5)	
Business Applications 148, Advanced Windows (1.5)	
Business Applications 163, Adobe Acrobat (3)	
Business Applications 179, Introduction to Microsoft Office (4)	
Business Applications 180, Advanced Microsoft Office (3)	
Business Applications 184, Advanced Microsoft Word for the Workplace (3)	
Business Applications 190, Microsoft PowerPoint (1.5)	
Business Applications 191, PowerPoint-Application Projects (1.5)	

Total 22

Digital Publishing Degree

Program code: sac.badp.aa

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.

Learning Outcome(s):

Students will be trained in all aspects of designing and publishing print and web business projects based on current business industry standards and technology.

Major requirements for the associate in arts or science degree:

Course	Units
Business Applications 017, Business Writing Skills	3
Business Applications 035, Computer Fundamentals	1.5
Business Applications 115A, Computer Keyboarding Speed and Accuracy Development I	1
Business Applications 018, Office Procedures	3
—OR—	
Business Applications 120, Administrative Office Management	
Business Applications 147, Introduction to Windows	1.5
Business Applications 164, Adobe Photoshop	3
Business Applications 166, Adobe Illustrator	3
Business Applications 169, Adobe Dreamweaver	3
Business Applications 170, Adobe InDesign	3
Business Applications 179, Introduction to Microsoft Office	4
Business 080, Business Mathematics	3

Select 4.5 units from the following elective courses: 4.5

Business Applications 066, Microsoft Outlook (1.5)	
Business Applications 148, Advanced Windows (1.5)	
Business Applications 160, Microsoft Publisher (3)	
Business Applications 163, Adobe Acrobat (3)	
Business Applications 173, Adobe Flash (3)	

Total 33.5

Digital Publishing Certificate (Transcribed)

Program code: sac.badp.ca

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.

Learning Outcome(s):

Students will demonstrate knowledge and competency in using Adobe Photoshop, Adobe Illustrator, Adobe Dreamweaver, Adobe InDesign and Microsoft Applications to integrate design principles that produce professional workplace documents.

Major requirements for the certificate:

Course	Units
Business Applications 163, Adobe Acrobat	3
Business Applications 164, Adobe Photoshop	3
Business Applications 166, Adobe Illustrator	3
Business Applications 169, Adobe Dreamweaver	3
Business Applications 170, Adobe InDesign	3

Select 4.5 units from the following elective courses: 4.5

Business Applications 035, Computer Fundamentals (1.5)	
Business Applications 115A, Computer Keyboarding Speed and Accuracy Development I (1)	
Business Applications 066, Microsoft Outlook (1.5)	
Business Applications 147, Introduction to Windows (1.5)	
Business Applications 160, Microsoft Publisher (3)	
Business Applications 173, Adobe Flash (3)	

Total 19.5

Digital Graphic Design for Business Certificate (Untranscribed)

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):

Students will possess working knowledge and skill using Adobe software to create logo designs, brochures, business cards, advertisements, multi-page layouts and PDF documents for business.

**Complete these courses for this certificate:**

Course	Units
Business Applications 163, Adobe Acrobat	3
Business Applications 166, Adobe Illustrator	3
Business Applications 170, Adobe InDesign	3
Entrepreneurship 120, Introduction to Working as a Freelance Independent Contractor	1
Entrepreneurship 121, People Skills for the Freelancer	1
Entrepreneurship 122, Opportunities in Freelance Industries and Trades	1
Entrepreneurship 123, Marketing to Attract Customers and Grow Your Freelance Business	1
Entrepreneurship 124, Survival Finance and Accounting for the Freelancer-Show Me the Money	1
Entrepreneurship 125, Launch Your Freelance Business	1
Total	15

Adobe Applications for Business Certificate (Untranscribed) 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 acquire knowledge and skill in using Adobe Photoshop, Adobe Dreamweaver, Adobe Illustrator and Adobe InDesign software to design various types of business documents.
2. Students will possess the necessary training and knowledge to pass the Adobe Certified Associate exam in Adobe Photoshop, Adobe Dreamweaver, Adobe Illustrator and Adobe Flash.

Complete these courses for the certificate:

Course	Units
Business Applications 164, Adobe Photoshop	3
Business Applications 169, Adobe Dreamweaver	3
Business Applications 170, Adobe InDesign	3
Art 195, Introduction to Digital Media Arts	3
Total	12

Adobe Web Projects for Business Certificate (Untranscribed) Program code: sac.baaw.cert

Adobe Web Projects for Business Certificate 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.

Learning Outcome(s):

1. Students will acquire the necessary training and knowledge to use Adobe software to create various types of business web projects that require the use of Adobe Photoshop, Adobe Dreamweaver and Adobe Flash.
2. Students will possess the training and knowledge to pass the Adobe Certified Associate exam in Adobe Photoshop, Adobe Dreamweaver or Adobe Flash.

Complete these courses for the certificate:

Course	Units
Business Applications 164, Adobe Photoshop	3
Business Applications 169, Adobe Dreamweaver	3
Business Applications 173, Adobe Flash	3
Total	9

Computer Fundamentals for Business Certificate (Untranscribed) Program code: sac.cfb.cert

The Computer Fundamentals for Business Certificate programs is designed to professionally train students to create all types of Word documents, Excel spreadsheets, Access Data Bases, and PowerPoint presentations based on current business industry standards.

Learning Outcome(s):

1. Students will acquire knowledge and skill in the fundamental application of the Windows graphical user interface.
2. Students will also possess skill in organizing and managing computerized files and folders using Windows Explorer.
3. Students will also have general knowledge of how use Microsoft Office Applications to create basic workplace documents.

Complete these courses for the certificate:

Course	Units
Business Applications 035, Computer Fundamentals	1.5
Business Applications 147, Introduction to Windows	1.5
Business Applications 179, Introduction to Microsoft Office	4
Total	7

Microsoft Office Professional Degree Program code: sac.bamso.aa

The Microsoft Office Professional degree program is designed to provide students training in computer skills based on current business industry standards and technology for any department within a company.

Learning Outcome(s):

Students will gain training in computer skills based on current business industry standards and technology for any department within a company and learn to create professional office documents using the Microsoft Office Suite including Word, Excel, Access, and PowerPoint.

Requirements for the associate in arts or science degree:

Course	Units
Business Applications 017, Business Writing Skills —OR— Management 122, Business Communications —OR— Business 222, Business Writing	3
Business Applications 018, Office Procedures —OR— Business Applications 120, Administrative Office Management	3
Business Applications 035, Computer Fundamentals	1.5
Business Applications 043, Microsoft Certified Application Specialist Preparation	0.5
Business Applications 049, Introduction to Microsoft Access	1.5
Business Applications 066, Microsoft Outlook	1.5
Business Applications 115A, Computer Keyboarding Speed and Accuracy Development I	1
Business Applications 147, Introduction to Windows	1.5
Business Applications 179, Introduction to Microsoft Office	4
Business Applications 180, Advanced Microsoft Office	3
Business Applications 189, Excel Application Projects	1.5
Business Applications 191, PowerPoint – Application Projects	1.5
Business 080, Business Mathematics	3



Select 6 units from the following elective courses:

- Business Applications 148, Advanced Windows (1.5)
- Business Applications 160, Microsoft Publisher (3)
- Business Applications 163, Adobe Acrobat (3)
- Business Applications 164, Adobe Photoshop (3)
- Business Applications 169, Adobe Dreamweaver (3)
- Business Applications 183, Microsoft Word (3)
- Business Applications 184, Advanced Microsoft Word for the Workplace (3)
- Business Applications 185, Real World Microsoft Office Projects (3)

Total 32.5

Microsoft Office Professional Certificate (Transcripted)

Program code: sac.bamso.ca

The Microsoft Office Professional Certificate program is designed to provide students training in computer skills based on current business industry standards and technology for any department within a company.

Learning Outcome(s):

1. Students will demonstrate mastery in using Microsoft Office applications to create workplace documents that include Word processing, Excel spreadsheets, Access Databases and PowerPoint Presentations.
2. Students will acquire competency in writing business communications and handling administrative office procedures.

Major requirements for the program:

Course	Units
Business Applications 043, Microsoft Certified Application Specialist Preparation	0.5
Business Applications 049, Introduction to Microsoft Access	1.5
Business Applications 066, Microsoft Outlook	1.5
Business Applications 115A, Computer Keyboarding Speed and Accuracy Development I	1
Business Applications 147, Introduction to Windows	1.5
Business Applications 179, Introduction to Microsoft Office	4
Business Applications 180, Advanced Microsoft Office	3
Business Applications 189, Excel Application Projects	1.5
Business Applications 191, PowerPoint – Application Projects	1.5

Select 3 units from the following elective courses: 3

- Business Applications 017, Business Writing Skills (3)
—OR—
- Management 122, Business Communications (3)
—OR—
- Business 222, Business Writing (3)
- Business Applications 120, Administrative Office Management (3)
- Business Applications 148, Advanced Windows (1.5)
- Business Applications 160, Microsoft Publisher (3)
- Business Applications 163, Adobe Acrobat (3)
- Business Applications 185, Real World Microsoft Office Projects (3)
- Business 080, Business Mathematics (3)

Total 19

Office Management Degree Program code: sac.baom.aa

The Office Management program is designed to prepare a student for employment in a business office as an administrative professional, office administrator, or administrative assistant. Course content includes computer training, administrative office management, office procedures, job search, professional image, business writing, and corporate skills based on current business industry standards.

6 Learning Outcome(s):

Students will learn computer training, administrative office management, office procedures, job search, professional image, business writing, and corporate skills based on current business industry standards.

Major requirements for the associate in arts or science degree:

Course	Units
Business Applications 017, Business Writing Skills —OR—	3
Management 122, Business Communications —OR—	
Business 222, Business Writing	3
Business Applications 018, Office Procedures	
Business Applications 120, Administrative Office Management	3
Business Applications 160, Microsoft Publisher —OR—	
Business Applications 163, Adobe Acrobat	4
Business Applications 179, Introduction to Microsoft Office	
Business 080, Business Mathematics	3
Business 120, Principles of Management	

Select a minimum of 6 units from the following courses: 6

- Business Applications 043, Microsoft Certified Application Specialist Preparation (0.5)
- Business Applications 148, Advanced Windows (1.5)
- Business Applications 180, Advanced Microsoft Office (3)
- Business Applications 183, Microsoft Word (3)
- Business Applications 066, Microsoft Outlook (1.5)
- Business Applications 188, Microsoft Excel (1.5)
- Business Applications 189, Excel Application Projects (1.5)

Select 3 units from the following elective courses: 3

- Accounting 035, QuickBooks (2)
- Business Applications 049, Introduction to Microsoft Access (1.5)
- Business Applications 115A, Computer Keyboarding Speed and Accuracy Development I (1)
- Business Applications 160, Microsoft Publisher (3)
- Business Applications 184, Advanced Microsoft Word for the Workplace (3)
- Business Applications 191, PowerPoint-Application Projects (1.5)

Total 27

Office Management Certificate (Untranscripted) Program code: sac.baom.cert

The Office Management program is designed to prepare a student for employment in a business office as an administrative professional, office administrator, or administrative assistant. Course content includes computer training, administrative office management, office procedures, job search, professional image, business writing, and corporate skills based on current business industry standards.

Learning Outcome(s):

1. Students will demonstrate knowledge and skill in successfully working as an administrative professional, office administrator, or administrative assistant in any corporation, manage business information using appropriate software, and perform records management, accounting, and office management activities.
2. Students will acquire general knowledge and skill in business writing using Microsoft applications and effectively handling general office procedures.

**Major requirements for the certificate:**

Course	Units
Business Applications 017, Business Writing Skills —OR—	
Management 122, Business Communication —OR—	3
Business 222, Business Writing (3)	
Business Applications 018, Office Procedures —OR—	3
Business Applications 120, Administrative Office Management	
Business Applications 179, Introduction to Microsoft Office	4
Business 080, Business Mathematics	3
Select 3 units from the following elective courses:	3
Accounting 035, QuickBooks (2)	
Business Applications 043, Microsoft Certified Application Specialist Preparation (0.5)	
Business Applications 049, Introduction to Microsoft Access (1.5)	
Business Applications 066, Microsoft Outlook (1.5)	
Business Applications 115A, Computer Keyboarding Speed and Accuracy Development I (1)	
Business Applications 147, Introduction to Windows (1.5)	
Business Applications 160, Microsoft Publisher (3)	
Business Applications 163, Adobe Acrobat (3)	
Business Applications 180, Advanced Microsoft Office (3)	
Business Applications 189, Excel Application Projects (1.5)	
Business Applications 191, PowerPoint-Application Projects (1.5)	
Total	16

Spanish/English Interpretation and Translation Option Certificate (Untranscribed)

Program code: sac.base.cert

Spanish/English Interpretation & Translation Option 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):

1. Students will demonstrate skill and competency in providing services as a certified Spanish/English bilingual interpreter to courts, victims and defendants 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.

Course	Units
Business Applications 051, Introduction to Spanish Bilingual Interpreting	3
Business Applications 056, General Foundation for Bilingual Business Interpretation-Spanish/English	3
Business Applications 057, Medical Interpretation and Translation-Spanish/English	3
Business Applications 058, Legal Interpretation and Translation-Spanish/English	3

Select one of the following classes:

English 061, Introduction to Composition (3)	
English 101, Freshman Composition (4)	
Spanish 101, Elementary Spanish I (5)	3-5
Spanish 101H, Honors Elementary Spanish I (5)	
Spanish 102, Elementary Spanish II (5)	
Spanish 102H, Honors Elementary Spanish II (5)	

Select one of the following elective classes: 3-4

Business 103, Cooperative Work Experience-Occupational (1-4)	
Business Applications 017, Business Writing Skills (3)	
Business Applications 120, Administrative Office Management (3)	
Business Applications 179, Introduction to Microsoft Office (4)	
Medical Assistant 051A, Beginning Medical Terminology (3)	
Law 100, Introduction to Legal Studies (3)	
Paralegal 100, The Paralegal Profession (3)	
Spanish 195A, Advanced Conversational Spanish (3)	
Total	16-20

Virtual Assistant - Advanced Office Applications and Technology Certificate (Untranscribed)

Program code: sac.bava.cert

The Virtual Freelance Assistant Certificate for Advanced Applications and Technology prepares students as expert users of advanced Microsoft Office applications and other technologies to become self-employed as a Virtual Freelance Assistant. Other topics include Working as a Freelance Independent Contractor, People Skills for the Freelancer, Opportunities in Freelance Industries and Trades, Marketing to Attract Customers & Grow Your Freelance Business, Survival Finance & Accounting for the Freelancer-Show Me the Money, and Launching Your Freelance Business.

Learning Outcome(s):

1. Students will acquire the knowledge, training and skill required to start a home-based business.
2. Students will possess competency in managing all aspects of operating and promoting a virtual office from any business sector.

Major requirements for the certificate:

Course	Units
Business Applications 043, Microsoft Certified Application Specialist Preparation	0.5
Business Applications 066, Microsoft Outlook	1.5
Business Applications 115A, Computer Keyboarding Speed and Accuracy Development I	1
Business Applications 179, Introduction to Microsoft Office	4
Business Applications 180, Advanced Microsoft Office	3
Entrepreneurship 120, Introduction to Working as a Freelance Independent Contractor	1
Entrepreneurship 121, People Skills for the Freelancer	1
Entrepreneurship 122, Opportunities in Freelance Industries and Trades	1
Entrepreneurship 123, Marketing to Attract Customers and Grow Your Freelance Business	1
Entrepreneurship 124, Survival Finance and Accounting for the Freelancer-Show Me the Money	1
Entrepreneurship 125, Launch Your Freelance Business	1
Total	16

Business Information Science

(See Computer Science)

California State University General Education Breadth Certificate of Achievement

Program code: sac.csu.ca

(Complete all CSU general education breadth requirements (Plan B) as outlined on page 27.) (Minimum 39 units)



CHEMISTRY

Option 1 Chemistry Degree Program code: sac.chem.as

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):

Students will develop proficiency and knowledge of chemistry concepts, laboratory techniques and experimental data collection/analysis.

Major requirements for the associate in science degree:

Course	Units
Chemistry 219, General Chemistry —OR—	5
Chemistry 219H, Honors General Chemistry	5
Chemistry 229, General Chemistry and Qualitative Analysis	5
Chemistry 249, Organic Chemistry I	5
Chemistry 259, Organic Chemistry II	5
Mathematics 180, Analytical Geometry and Calculus —OR—	4
Mathematics 180H, Honors Analytical Geometry and Calculus	4
Total	24

Option 2 Associate in Science in Chemistry for Transfer Program code: sac.chem.ast

The Associate in Science in Chemistry for Transfer (A.S.-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 A.S.-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 28 for a list of additional requirements for all Associate in Arts for Transfer (A.A.-T.) and Associate in Science for Transfer (A.S.-T.) degrees. Students earning a Chemistry A.S.-T. must select IGETC for STEM to complete the general education requirement.*** Upon completion of the A.S.-T in Chemistry degree, students will gain a foundation in general and organic chemistry which is necessary in many fields of science and engineering.

Required Core:

Courses	Units
Chemistry 219, General Chemistry —OR—	5
Chemistry 219H, Honors General Chemistry	5
Chemistry 229, General Chemistry and Qualitative Analysis	5
Chemistry 249, Organic Chemistry I	5
Chemistry 259, Organic Chemistry II	5
Mathematics 180, Analytical Geometry and Calculus —OR—	4
Mathematics 180H, Honors Analytical Geometry and Calculus	4
Mathematics 185, Analytic Geometry and Calculus	4
Physics 217, Engineering Physics I	4
Physics 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 IC, must be included.)

CHICANO STUDIES

Chicano Studies Degree Program code: sac.chst.aa

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):

Students will demonstrate an understanding of the history, development, and role of Chicano culture in America.

Requirements for the associate in arts degree:

Course	Units
Art 104, Mexican and Chicano Art History	3
Chicano Studies 101, Introduction to Chicano Studies	3
English 246, Survey of Chicano Literature	3
Ethnic Studies 101, Introduction to Ethnic Studies —OR—	3
Ethnic Studies 101H, Honors Introduction to Ethnic Studies	3
History 124, Mexican American History in the United States —OR—	3
History 124H, Honors Mexican American History in the United States	3
History 153, History of Mexico	3
History 181, Survey of Chicana/Latina Women's History	3
Spanish 101, Elementary Spanish I —OR—	5
Spanish 102, Elementary Spanish II	5

A minimum of six (6) units (but, no more than three (3) units from any one discipline) taken from the following list:

Anthropology 100 or 100H, 104 or 104H, 105, 125; Black Studies 101; Dance 105, 110, 111, 112; English 104 or 104H; History 101 or 101H, 102 or 102H, 105, 125, 127, 150, 151; Child Development 221; Music 102 or 102H; Sociology 100 or 100H; Spanish 201 or 201H, 202 or 202H.

Total 32



CHILD DEVELOPMENT

(Formerly Human Development)

Associate in Science in Early Childhood Education for Transfer

Program code: sac.ece.ast

The Associate in Science in Early Childhood Education for Transfer (A.S.-T in Early Childhood Education) prepares students to move into the CSU system 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 A.S.-T in Early Childhood Education 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 Development major. See page 28 for a list of additional requirements for all Associate in Arts for Transfer (A.A.-T) and Associate in Science for Transfer (A.S.-T) degrees. Upon completion of the A.S.-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.

Learning Outcome(s):

1. Students will demonstrate a knowledge base of early childhood and development of young children 3-5 years old.
2. will apply the knowledge base of theory to practice through thoughtful reflections on classroom observations.
3. Students will understand and be conversant about the main philosophical and sociological ideas and trends that have influenced education as well as be able to analyze their application and importance for teaching today.

Courses	Units
Required Core (24.5 units)	
Child Development 107, Child Growth and Development (DS1)	3
Child Development 108, Observation and Assessment for Early Learning and Development (DS3)	3
Child Development 110, Child, Family, and Community (DS2)	3
Child Development 111A, Principles and Practices of Teaching Young Children	3
Child Development 111B, Introduction to Curriculum for Young Children	3
Child Development 112, Health, Safety, and Nutrition for Children	3
Child Development 221, Living and Teaching in A Diverse Society	3
Child Development 298A, Practicum in Early Childhood Programs	3.5
Total	24.5

Child Development – Emphasis in Infant/Toddler Care and Development Degree

Program code: sac.cdit.aa

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. Students will demonstrate a knowledge base of early childhood and development of young children 0-2 years old.
2. Students will apply the knowledge base of theory to practice through thoughtful reflections on classroom observations.
3. Students will understand and be conversant about the main philosophical and sociological ideas and trends that have influenced education as well as be able to analyze their application and importance for teaching today.

Course	Units
Child Development 107, Child Growth and Development (DS1)	3
Child Development 108, Observation and Assessment for Early Learning and Development (DS3)	3
Child Development 110, Child, Family, and Community (DS2)	3
Child Development 111A, Principles and Practices of Teaching Young Children	3
Child Development 111B, Introduction to Curriculum for Young Children	3
Child Development 112, Health, Safety, and Nutrition for Children	3
Child Development 116A, Infant/Toddler Growth and Development (DS4)	3
Child Development 116B, Care and Education for Infants and Toddlers (DS3)	3
Child Development 200, Introduction to Technology in Early Childhood Education	3
Child Development 205, Introduction to Children with Special Needs	3
Child Development 221, Living and Teaching in a Diverse Society	3
Child Development 297, Analyzing and Applying Teacher Strategies in the Classroom	3
Child Development 298B, Practicum in Infant/Toddler Programs	3.5
Total	39.5

Child Development – Emphasis in Preschool Age Care and Development Degree

Program code: sac.cdpc.aa

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 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 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. Students will demonstrate a knowledge base of early childhood and development of young children 3-5 years old.
2. Students will apply the knowledge base of theory to practice through thoughtful reflections on classroom observations.
3. Students will understand and be conversant about the main philosophical and sociological ideas and trends that have influenced education as well as be able to analyze their application and importance for teaching today.

Course	Units
Child Development 107, Child Growth and Development (DS1)	3
Child Development 108, Observation and Assessment for Early Learning and Development (DS3)	3
Child Development 110, Child, Family, and Community (DS2)	3
Child Development 111A, Principles and Practices of Teaching Young Children (DS3)	3
Child Development 111B, Introduction to Curriculum for Young Children (DS3)	3
Child Development 112, Health, Safety, and Nutrition for Children	3
Child Development 200, Introduction to Technology in Early Childhood Education	3
Child Development 205, Introduction to Children with Special Needs	3
Child Development 221, Living and Teaching in a Diverse Society	3
Child Development 231, Developing Language and Literacy in Young Children	3
Child Development 297, Analyzing and Applying Teacher Strategies in the Classroom	3
Child Development 298A, Practicum in Early Childhood Programs	3.5
Total	36.5

Child Development - Emphasis in School-Age Care and Recreation Degree

Program code: sac.cdsa.aa

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. Students will demonstrate a knowledge base of the development of school aged children.
2. Students will apply the knowledge base of theory to practice through thoughtful reflections on classroom observations.
3. Students will understand and be conversant about the main philosophical and sociological ideas and trends that have influenced education as well as be able to analyze their application and importance for teaching today.

Course	Units
Child Development 107, Child Growth and Development (DS1)	3
Child Development 110, Child, Family and Community (DS2)	3
Child Development 111A, Principles and Practices of Teaching Young Children (DS3)	3
Child Development 111B, Introduction to Curriculum for Young Children (DS3)	3
Education 113, Tutoring Reading in Elementary Schools	1
Child Development 120A, Development of the School-Age Child (DS5)	3
Child Development 120B, School-Age Child Care and Recreation Activities (DS5)	3
Child Development 200, Introduction to Technology in Early Childhood Education	3
Child Development 205, Introduction to Children with Special Needs	3
Child Development 221, Living and Teaching in a Diverse Society	3
Child Development 297, Analyzing and Applying Teacher Strategies in the Classroom	3
Child Development 298A, Practicum in Early Childhood Programs	3.5
Child Development 299, Cooperative Work Experience Education	1-4
Total	35.5-38.5

Note: This degree option is especially intended for students who will be transferring to CSU and seeking a teaching credential. Students should consult with a counselor for specific information regarding the college of their choice and course requirements.

Bilingual (English/Spanish) Preschool Associate Teacher Certificate (Transcribed)

Program code: sac.hudbp.ca

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.
2. Students will apply the knowledge base of theory to practice through thoughtful reflections on classroom observations.
3. Students will understand the main philosophical and sociological ideas and trends that have influenced education.



Course	Units
Child Development 070, Early Childhood Education: Introductory Principles and Practices (DS3)	3
Child Development 107, Child Growth and Development (DS1)	3
Child Development 108, Observation and Assessment for Early Learning and Development (DS3)	3
Child Development 110, Child, Family, and Community (DS2)	3
Child Development 111A, Principles and Practices of Teaching Young Children	3
Child Development 111B, Introduction to Curriculum for Young Children	3
Total	18

Early Childhood Teacher Certificate (Transcripted) Program code: sac.cdect.ca

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 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.

Contact Career Technical Education (CTE) counselors at SAC for additional assistance in planning your early childhood profession (714-564-6254).

Learning Outcome(s):

1. Students will demonstrate a knowledge base of the development of school aged children.
2. Students will apply the knowledge base of theory to practice through thoughtful reflections on classroom observations.
3. Students will understand and be conversant about the main philosophical and sociological ideas and trends that have influenced education as well as be able to analyze their application and importance for teaching today.

Course	Units
Child Development 107, Child Growth and Development (DS1)	3
Child Development 108, Observation and Assessment for Early Learning and Development (DS3)	3
Child Development 110, Child, Family, and Community (DS2)	3
Child Development 111A, Principles and Practices of Teaching Young Children (DS3)	3
Child Development 111B, Introduction to Curriculum for Young Children (DS3)	3
Child Development 112, Health, Safety, and Nutrition for Children	3
Child Development 200, Introduction to Technology in Early Childhood Education	3
Child Development 205, Introduction to Children with Special Needs	3
Child Development 221, Living and Teaching in a Diverse Society	3
Child Development 231, Developing Language and Literacy in Young Children	3
Child Development 297, Analyzing and Applying Teacher Strategies in the Classroom	3
Child Development 298A, Practicum in Early Childhood Programs	3.5
Total	36.5

Infant/Toddler Teacher Certificate (Transcripted) Program code: sac.cditt.ca

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 California permit.



Course	Units
Child Development 107, Child Growth and Development (DS1)	3
Child Development 108, Observation and Assessment for Early Learning and Development (DS3)	3
Child Development 110, Child, Family, and Community (DS2)	3
Child Development 111A, Principles and Practices of Teaching Young Children (DS3)	3
Child Development 111B, Introduction to Curriculum for Young Children (DS3)	3
Child Development 112, Health, Safety, and Nutrition for Children	3
Child Development 116A, Infant/Toddler Growth and Development (DS4)	3
Child Development 116B, Care and Education for Infants and Toddlers (DS3)	3
Child Development 200, Introduction to Technology in Early Childhood Education	3
Child Development 205, Introduction to Children with Special Needs	3
Child Development 221, Living and Teaching in a Diverse Society	3
Child Development 297, Analyzing and Applying Teacher Strategies in the Classroom	3
Child Development 298B, Practicum in Infant/Toddler Programs	3.5
Total	39.5

School Age Teacher Certificate (Transcribed) Program code: sac.cdsat.ca

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. Students will demonstrate a knowledge base of the development of school aged children.
2. Students will apply the knowledge base of theory to practice through thoughtful reflections on classroom observations.
3. Students will understand and be conversant about the main philosophical and sociological ideas and trends that have influenced education as well as be able to analyze their application and importance for teaching today.

Course	Units
Child Development 107, Child Growth and Development (DS1)	3
Child Development 110, Child, Family and Community (DS2)	3
Child Development 111A, Principles and Practices of Teaching Young Children	3
Child Development 111B, Introduction to Curriculum for Young Children	3
Education 113, Tutoring Reading in Elementary Schools	1
Child Development 120A, Development of the School Age Child (DS5)	3
Child Development 120B, School-Age Child Care and Recreation Activities (DS5)	3
Child Development 200, Introduction to Technology in Early Childhood Education	3
Child Development 205, Introduction to Children with Special Needs	3
Child Development 220, The Child as Victim	3
Child Development 221, Living and Teaching in a Diverse Society	3
Child Development 297, Analyzing and Applying Teacher Strategies in the Classroom	3
Child Development 298A, Practicum in Early Childhood Programs	3.5
Child Development 299, Cooperative Work Experience Education	1-4
Total	35.5-38.5

Early Childhood Assistant Teacher Certificate (Untranscribed) 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 a conceptual knowledge of theories related to children's development and learning.
2. Identify professional expectations and ethical responsibilities of early childhood educators.
3. Demonstrate knowledge of community resources and understanding of diverse family needs



Course	Units
Child Development 107, Child Growth and Development (DS1)	3
Child Development 108, Observation and Assessment for Early Learning and Development (DS3)	3
Child Development 110, Child, Family, and Community (DS2)	3
Total	9

COMMUNICATION STUDIES

Option 1

Communication Studies Degree

Program code: **sac.cmst.aa**

The associate degree curriculum in communication studies provides training for communicating and dealing with people. Completion of the associate in 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. Students will describe, analyze, interpret, and evaluate both in theory and practice the key constructs advanced in the following fields of Communication Studies: interpersonal, intercultural, small group dynamics, debate, and public discourse.
2. Students will analyze and demonstrate understanding of current theories of communication in written and oral formats.
3. Students will demonstrate knowledge of effective strategies for initiating, maintaining, and ending communication encounters.

Major requirements for the associate in arts degree:

Course	Units
Communication Studies 101, Introduction to Interpersonal Communication	3
—OR—	
Communication Studies 101H, Honors Introduction to Interpersonal Communication	3
—OR—	
Communication Studies 102, Public Speaking	3
Communication Studies 103, Introduction to Intercultural Communication	3
—OR—	
Communication Studies 103H, Honors Introduction to Intercultural Communication	3
—OR—	
Communication Studies 140, Argumentation and Debate	3
Communication Studies 145, Group Dynamics	3
One additional elective from the following:	3
Communication Studies 151, Voice and Diction for Effective Communication (3)	3
Communication Studies 152, Oral Interpretation (3)	
Communication Studies 170, Introduction to Phonetics (3)	3
Communication Studies 206, Gender Communication (3)	
—OR—	3
Communication Studies 206H, Honors Gender Communication (3)	
Total	18

Option 2

Associate in Arts in Communication Studies for Transfer

Program code: **sac.cmst.aat**

The Associate in Arts in Communication Studies for Transfer (A.A.-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 A.A.-T degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU, Fullerton, in the Communication Studies major. See 28 for a list of additional requirements for all Associate in Arts for Transfer (A.A.-T) and Associate in Science for Transfer (A.S.-T) degrees. Upon completion of the A.A.-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. Students will describe, analyze, interpret, and evaluate both in theory and practice the key constructs advanced in the following fields of Communication Studies: interpersonal, intercultural, small group dynamics, debate, and public discourse.
2. Students will analyze and demonstrate understanding of current theories of communication in written and oral formats.
3. Students will demonstrate knowledge of effective strategies for initiating, maintaining, and ending communication encounters.

Course	Units
Required Core (3 Units)	
Communication Studies 102, Public Speaking	3
List A – select two courses (6 units)	
Communication Studies 140, Argumentation and Debate	3
Communication Studies 101, Introduction to Interpersonal Communication	
—OR—	3
Communication Studies 101H, Honors Introduction to Interpersonal Communication	
Communication Studies 145, Group Dynamics	3
List B – select two courses (6 units)	
Any List A course not used above	3
Communication Studies 103, Introduction to Intercultural Communication	3
—OR—	
Communication Studies 103H, Honors Introduction to Intercultural Communication	3
Communication Studies 151, Voice and Diction for Effective Communication	
Communication Studies 152, Oral Interpretation	3
Communications & Media Studies 105, Mass Media and Society	3
—OR—	
Communications & Media Studies 105H, Honors Mass Media and Society	3
List C – select one course (3 units)	
Any course not selected above	3
Anthropology 100, 100H; Communication Studies 158, 170, 206, 206H; Communications & Media Studies 111; English 102, 102H; Psychology 100, 100H; Sociology 100, 100H	3
Total	18



COMMUNICATIONS & MEDIA STUDIES

Option 1

Communications & Media Studies Degree

Program code: sac.cmsda.aa

The Associate in Arts in Communications and Media Studies degree offers students a unique blend of media theory and practice. The program provides critical and cultural analysis of media and communications, while offering students comprehensive study in reporting, writing, visual reporting, design, and editing across media platforms. Students build their production skills while working at the college's nationally acclaimed publications *el Don* and *eldonnews.org*. Completion of the degree prepares students to move into a four-year program, leading to a baccalaureate degree and to potential careers in such fields as Web-based media, social media and print reporting, editing, photography, and design, public relations, advertising, radio, digital media, and television writing, and production. Please consult a SAC counselor for information about course requirements for particular four-year institutions. Course content provides Web-based, multimedia storytelling and visual reporting, writing, editing, photography, and digital design skills.

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 conduct research for news stories using a variety of sources and evaluate the accuracy of information sources.

Major requirements for the associate in arts degree:

Course	Units
Communications & Media Studies 102, Multimedia Storytelling	3
Communications & Media Studies 103, Visual Communication	3
Communications & Media Studies 110, Introduction to Creative Nonfiction	4
Communications & Media Studies 121, Introduction to Reporting and Newswriting	3
Communications & Media Studies 123A, News Media Production	4
Communications & Media Studies 124, Magazine Writing for Print and Digital Media	3
Communications & Media Studies 201, Visual Reporting	2
Communications & Media Studies 210, Intermediate Reporting and Newswriting	3
Communications & Media Studies 222, Writing Across Media	3
Communications & Media Studies 298A, Designing for Print and Digital Media	3
Communications & Media Studies 298B, Intermediate Designing for Print and Digital Media	3
Total	31

Option 2

Associate in Arts in Journalism for Transfer

Program code: sac.cmsd.aat

The Associate in Arts in Journalism for Transfer (A.A.-T 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 A.A.-T 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 28 for a list of additional requirements for all Associate

in Arts for Transfer (A.A.-T) and Associate in Science for Transfer (A.S.-T) degrees. Upon completion of the A.A.-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 conduct research for news stories using a variety of sources and evaluate the accuracy of information sources.

Courses	Units
Required Core (10 units)	
Communications & Media Studies 105, Mass Media and Society (3)	
—OR—	
Communications & Media Studies 105H, Honors Mass Media and Society (3)	3
Communications & Media Studies 121, Introduction to Reporting and Newswriting	3
Communications & Media Studies 123A, News Media Production	4
List A: select 1 course from the following: (3-4 units)	3-4
Communications & Media Studies 103, Introduction to Visual Communications (3)	
Communications & Media Studies 123B, Intermediate News Media Production (4)	
Communications & Media Studies 160, Introduction to Photojournalism (3)	
Communications & Media Studies 210, Intermediate Reporting and Newswriting (3)	
List B: select 2 courses from the following: (6-8 units)	6-8
Communications & Media Studies 111, Media, Race and Gender (3)	
Communication Studies 140, Argumentation and Debate (3)	
Communications & Media Studies 298A, Designing for Print and Digital Media (3)	
Counseling 144, Reasoning and Problem Solving (3)	
—OR—	
Reading 150, Critical Reading (3)	
—OR—	
Philosophy 110, Critical Thinking (4)	
—OR—	
Philosophy 110H, Honors Critical Thinking (4)	
Economics 120, Principles/Macro (3)	
—OR—	
Economics 121, Principles/Micro (3)	
English 102, Literature and Composition (4)	
—OR—	
English 102H, Honors Literature and Composition (4)	
—OR—	
English 103, Critical Thinking and Writing (4)	
—OR—	
English 103H, Honors Critical Thinking and Writing (4)	
Mathematics 219, Statistics and Probability (4)	
—OR—	
Mathematics 219H, Honors Statistics and Probability (4)	



Philosophy 111, Introductory Logic (4)	
Photography 180, Beginning Photography (3)	
Political Science 101, Introduction to American Governments (3)	
—OR—	
Political Science 101H, Honors Introduction to American Governments (3)	
Political Science 201, Introduction to Comparative Politics (3)	
Total	19-22

B-Broadcast Communications & Media Studies Emphasis Degree

Program code: sac.cmsdb.aa

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 conduct research for news stories using a variety of sources and evaluate the accuracy of information sources.

Course	Units
Communications & Media Studies 105, Mass Media and Society (3)	
—OR—	
Communications & Media Studies 105H, Honors Mass Media and Society (3)	3
Communications & Media Studies 121, Introduction to Reporting and Newswriting	3
Communication Studies 101, Introduction to Interpersonal Communication (3)	
—OR—	
Communication Studies 101H, Honors Introduction to Interpersonal Communication (3)	3
Communication Studies 151, Voice and Diction for Effective Communication	3
Television/Video Communications 100, Introduction to Electronic Media: Broadcasting, Cable, Video	3
Television/Video Communications 110, Introduction to Television Production	3
Television/Video Communications 130, Principles of Broadcast News	3
Television/Video Communications 142, Acting for Television and Film	3

Note: The following courses satisfy general education requirements and are prerequisites for the major: English 101 or 101H, 102 or 102H.

Plus 11 units from the following courses

11

Communications & Media Studies 123A, News Media Production (4)	
Communications & Media Studies 123B, Intermediate News Media Production (4)	
Communications & Media Studies 222, Writing Across Media (3)	
Communications & Media Studies 298B, Intermediate Designing for Print and Digital Media (3)	
Communication Studies 140, Argumentation and Debate (3)	
Communication Studies 152, Oral Interpretation (3)	
English 241, Survey of American Literature 1600-1865 (3)	
English 242, Survey of American Literature, 1865-Present (3)	
English 243, The Modern American Novel (3)	
History 118, Social and Cultural History of the United States (3)	
History 120, The United States to 1865 (3)	
—OR—	
History 120H, Honors The United States to 1865 (3)	
History 121, The United States since 1865 (3)	
—OR—	
History 121H, Honors The United States since 1865 (3)	
Philosophy 110, Critical Thinking (4)	
—OR—	
Philosophy 110H, Honors Critical Thinking (4)	
Political Science 101, Introduction to American Governments (3)	
—OR—	
Political Science 101H, Honors Introduction to American Governments (3)	
Psychology 100, Introduction to Psychology (3)	
—OR—	
Psychology 100H, Honors Introduction to Psychology (3)	
Television/Video Communications 009, Laboratory (0.5)	
Television/Video Communications 101, TV and Society: A Visual History (3)	
Television/Video Communications 112, Introduction to Video Editing and Postproduction (3)	
Television/Video Communications 120, Beginning Screenwriting for TV, Film, the Web, Corporate Video and Digital Media (3)	
Television/Video Communications 121, Intermediate Screenwriting for TV, Film, the Web, Corporate Video and Digital Media (3)	
Television/Video Communications 131, Beginning Broadcast News Workshop (2)	
Television/Video Communications 150, Producing and Directing for Television (3)	
Television/Video Communications 260, Lighting Fundamentals (3)	
Theatre Arts 110, Acting Fundamentals (3)	
Total	35

Communications & Media Studies Certificate (Transcripted)

Program code: sac.cmsd.ca

The certificate program in Communications & 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 conduct research for news stories using a variety of sources and evaluate the accuracy of information sources.

Course	Units
Communications & Media Studies 102, Multimedia Storytelling	3
Communications & Media Studies 103, Visual Communication	3
Communications & Media Studies 110, Introduction to Narrative Nonfiction	4
Communications & Media Studies 121, Introduction to Reporting and Newswriting	3
Communications & Media Studies 123A, News Media Production	4
Communications & Media Studies 125, Media Editing Workshop	1.5
Communications & Media Studies 201, Visual Reporting	2
Communications & Media Studies 222, Writing Across Media	3
Communications & Media Studies 298A, Designing for Print and Digital Media	3
Total	26.5

COMMUNITY SOCIAL SERVICES

Community Social Services Degree Program code: sac.css.aa

The major course 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.

Major requirements for the associate in arts degree:

Course	Units
Counseling 150, Introduction to Human Services	3
Counseling 155, Skills for the Helping Professions	3
Human Development 107, Child, Growth and Development	3
—OR—	
Psychology 157, Introduction to Child Psychology	3
Sociology 112, Relationships, Marriages, and Family Dynamics	
—OR—	3
Psychology 100, Introduction to Psychology	
—OR—	3
Psychology 100H, Honors Introduction to Psychology	

Select a minimum of 6 units from the electives below: 6

Anthropology 100, Introduction to Cultural Anthropology (3)	6
—OR—	
Anthropology 100H, Honors Introduction to Cultural Anthropology (3)	6
Biology 149, Human Anatomy and Physiology (4)	
Child Development 116A, Infant/Toddler Growth and Development (DS4) (3)	6
Child Development 110, Child, Family, and Community (DS2) (3)	
Child Development 205, Introduction to Children with Special Needs (3)	6
Child Development 220, The Child as a Victim (3)	
Counseling 116, Career/Life Planning and Personal Exploration (3)	6
Education 100, Introduction to Education (3)	
Education 210, The Teaching Experience: Secondary Education (3)	6
Mathematics 219, Statistics and Probability (4)	
Mathematics 219H, Honors Statistics and Probability (4)	6
—OR—	
Mathematics 105, Mathematics for Liberal Arts Students (3)	6
Psychology 250, Introduction to Abnormal Psychology (3)	
Sociology 100, Introduction to Sociology (3)	6
—OR—	
Sociology 100H, Honors Introduction to Sociology (3)	6
Sociology 112, Relationships, Marriages, and Family Dynamics (3)	
Psychology 100, Introduction to Psychology (3)	6
—OR—	
Psychology 100H, Honors Introduction to Psychology (3)	Total 18

COMPUTER INFORMATION SYSTEMS

Computer Information Systems Degree Program code: sac.cis.as

The associate degree curriculum in Computer Information Systems is concerned with the development of procedures that are effective and efficient, computer languages suitable for starting these procedures, and systems for executing the procedures. This may include the ability to write programs in Visual BASIC, C++ or Java, experience microcomputer data processing applications such as Excel or Access, and ability to structure data for the computer. 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):

Students will know how to write a program and use data processing software.

**Major requirements for the associate degree:****Take ALL of the following courses:**

	Units
Computer Science 105, Visual BASIC Programming	3
Computer Science 163, Microsoft Excel	3
Computer Science 167, Microsoft Access	3
Computer Science 173, Introduction to Networking Technology	3
Computer Science 205, Advanced Visual BASIC	3

Select ONE course from the following:

Business 150, Introduction to Information Systems and Applications (3)	3
—OR—	
Computer Science 100, The Computer and Society (3)	

Select ONE course from the following:

Computer Science 134B, Windows Vista Operating System (3)	
—OR—	
Computer Science 134C, Microsoft Windows 7 Operating System (3)	3
—OR—	
Computer Science 134D, Microsoft Windows 8 Operating System (3)	

Select ONE course from the following:

Computer Science 247B, Windows Server 2008 (3)	
—OR—	
Computer Science 247C, Windows Small Business Server (SBS) 2011–Standard (3)	3
—OR—	
Computer Science 247D, Windows Server 2012 (3)	

Select a minimum of THREE units from the following:

Accounting 101, Financial Accounting (4)	
Accounting 102, Managerial Accounting (4)	
Accounting 160, Computerized Accounting with MAS 90® - Part 1 Core Modules (3)	
Computer Science 104, Cooperative Work Experience Education –Occupational (1-16)	
Computer Science 112, Java Programming (3)	
Computer Science 117, Perl Programming and CGI (3)	
Computer Science 118, JavaScript Programming (3)	
Computer Science 120, Introduction to Programming (3)	
Computer Science 121, Programming Concepts (3)	
Computer Science 124A, MCDST Preparation (3)	
Computer Science 125, Help Desk Skills (1.5)	
Computer Science 135, Software Deployment Mechanisms (1.5)	
Computer Science 136, Building a Small Office/Home Office Network (1.5)	
Computer Science 137, Personal Computer Troubleshooting (3)	
Computer Science 139, Configuration and Administration of Local Area Networks (1.5)	
Computer Science 141, UNIX Operating System (3)	
Computer Science 142, Advanced Unix (3)	
Computer Science 152, HTML (3)	
Computer Science 168, Advanced Microsoft Access (3)	
Computer Science 169, Structured Query Language (SQL) (3)	
Computer Science 206, Visual Basic for Web Development (3)	
Computer Science 213, C# Programming (3)	
Computer Science 214, XML Programming (3)	
Computer Science 243, UNIX System Programming (3)	
Computer Science 244, Microsoft Exchange Server (3)	
Computer Science 247B, Windows Server 2008 (3)	
Computer Science 247C, Windows Small Business Server (SBS) 2011–Standard (3)	
Computer Science 247D, Windows Server 2012 (3)	
Computer Science 248, Microsoft SQL Server (3)	
Computer Science 249, Microsoft Internet Information Server (IIS) (3)	

Total 27**Computer Information Systems Certificate (Transcripted)****Program code: sac.cis.ca**

The Certificate of Achievement curriculum in Computer Information Systems is concerned with the development of procedures that are effective and efficient, computer languages suitable for starting these procedures, and systems for executing the procedures. This may include the ability to write programs in Visual BASIC, C++ or Java, experience microcomputer data processing applications such as Excel or Access, and ability to structure data for the computer. 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):

Students will know how to write a program and use data processing software.

Major requirements for the Certificate:**Take ALL of the following courses:**

	Units
Computer Science 105, Visual BASIC Programming	3
Computer Science 163, Microsoft Excel	3
Computer Science 167, Microsoft Access	3
Computer Science 173, Introduction to Networking Technology	3
Computer Science 205, Advanced Visual BASIC	3

Select ONE course from the following:

Business 150, Introduction to Information Systems and Applications (3)	3
—OR—	
Computer Science 100, The Computer and Society (3)	

Select ONE course from the following:

Computer Science 134B, Windows Vista Operating System (3)	
—OR—	
Computer Science 134C, Microsoft Windows 7 Operating System (3)	3
—OR—	
Computer Science 134D, Microsoft Windows 8 Operating System (3)	

Select ONE course from the following:

Computer Science 247B, Windows Server 2008 (3)	
—OR—	
Computer Science 247C, Windows Small Business Server (SBS) 2011–Standard (3)	3
—OR—	
Computer Science 247D, Windows Server 2012 (3)	

Select a minimum of THREE units from the following:

Accounting 101, Financial Accounting (4)	
Accounting 102, Managerial Accounting (4)	
Accounting 160, Computerized Accounting with MAS 90® - Part 1 Core Modules (3)	
Computer Science 104, Cooperative Work Experience Education –Occupational (1-16)	
Computer Science 112, Java Programming (3)	
Computer Science 117, Perl Programming and CGI (3)	
Computer Science 118, JavaScript Programming (3)	
Computer Science 120, Introduction to Programming (3)	
Computer Science 121, Programming Concepts (3)	
Computer Science 124A, MCDST Preparation (3)	
Computer Science 125, Help Desk Skills (1.5)	
Computer Science 135, Software Deployment Mechanisms (1.5)	
Computer Science 136, Building a Small Office/Home Office Network (1.5)	
Computer Science 137, Personal Computer Troubleshooting (3)	



Computer Science 139, Configuration and Administration of Local Area Networks (1.5)	
Computer Science 141, UNIX Operating System	3
Computer Science 142, Advanced Unix	3
Computer Science 152, HTML	3
Computer Science 168, Advanced Microsoft Access	3
Computer Science 169, Structured Query Language (SQL)	3
Computer Science 206, Visual Basic for Web Development	(3)
Computer Science 213, C# Programming	(3)
Computer Science 214, XML Programming	(3)
Computer Science 243, UNIX System Programming	(3)
Computer Science 244, Microsoft Exchange Server	(3)
Computer Science 247B, Windows Server 2008	(3)
Computer Science 247C, Windows Small Business Server (SBS) 2011–Standard	(3)
Computer Science 247D, Windows Server 2012	(3)
Computer Science 248, Microsoft SQL Server	(3)
Computer Science 249, Microsoft Internet Information Server (IIS)	(3)
Total	27

Database Certificate (Untranscribed) Program code: sac.cisdb.cert

Learning Outcome(s):

Students will know how to write a database program and use database software.

Take ALL of the following courses:	Units
Computer Science 105, Visual BASIC Programming	3
Computer Science 167, Microsoft Access	3
Computer Science 168, Advanced Microsoft Access	3
Computer Science 169, Structured Query Language (SQL)	3
Computer Science 205, Advanced Visual BASIC	3
Total	15

Enterprise Systems Certificate (Untranscribed) Program code: sac.cmpres.cert

The associate degree and certificate curriculum in Computer Information Systems is concerned with the development of procedures that are effective and efficient, computer languages suitable for starting these procedures, and systems for executing the procedures. This may include the ability to write programs in Visual BASIC, C++ or Java, experience microcomputer data processing applications such as Excel or Access, and ability to structure data for the computer. 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):

Students will know how to use Enterprise System software.

Take ALL of the following courses:	Units
Computer Science 244, Microsoft Exchange Server	3
Computer Science 248, Microsoft SQL Server	3
Computer Science 249, Microsoft Internet Information Server (IIS)	3

Select ONE course from the following:

Computer Science 247B, Windows Server 2008 (3)	
—OR—	
Computer Science 247C, Windows Small Business Server (SBS) 2011–Standard (3)	3
—OR—	
Computer Science 247D, Windows Server 2012 (3)	
Total	12

Help Desk Certificate (Untranscribed) Program code: sac.cishd.cert

The associate degree and certificate curriculum in Computer Information Systems is concerned with the development of procedures that are effective and efficient, computer languages suitable for starting these procedures, and systems for executing the procedures. This may include the ability to write programs in Visual BASIC, C++ or Java, experience microcomputer data processing applications such as Excel or Access, and ability to structure data for the computer. 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):

Students will know how to use Help Desk software.

Take ALL of the following courses:

	Units
Computer Science 100, The Computer and Society	3
Computer Science 104, Cooperative Work Experience Education1-4 -Occupational	
Computer Science 124A, MCDST Preparation	3
Computer Science 125, Help Desk Skills	1.5
Computer Science 137, Personal Computer Troubleshooting	3

Select ONE course from the following:

Computer Science 134B, Windows Vista Operating System (3)	
Computer Science 134C, Microsoft Windows 7 Operating System (3)	3
Computer Science 134D, Microsoft Windows 8 Operating System (3)	
Total	14.5-17.5

Networking Certificate (Untranscribed) Program code: sac.cisnw.cert

The associate degree and certificate curriculum in Computer Information Systems is concerned with the development of procedures that are effective and efficient, computer languages suitable for starting these procedures, and systems for executing the procedures. This may include the ability to write programs in Visual BASIC, C++ or Java, experience microcomputer data processing applications such as Excel or Access, and ability to structure data for the computer. 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):

Students will know how to use Networking software.



Take ALL of the following courses:	Units
Computer Science 136, Building a Small Office/Home Office Network	1.5
Computer Science 139, Configuration and Administration of Local Area Networks	1.5
Computer Science 173, Introduction to Networking Technology	3

Select ONE course from the following:	Units
Computer Science 134B, Windows Vista Operating System (3)	3
—OR—	
Computer Science 134C, Microsoft Windows 7 Operating System (3)	
—OR—	
Computer Science 134D, Microsoft Windows 8 Operating System (3)	
Computer Science 247B, Microsoft Windows Server 2008 (3)	3
—OR—	
Computer Science 247C, Windows Small Business Server (SBS) 2011–Standard (3)	
—OR—	
Computer Science 247D, Windows Server 2012 (3)	
Total	12

PC Maintenance and Troubleshooting Certificate (Untranscribed)

Program code: sac.cmpm.cert

The associate degree and certificate curriculum in Computer Information Systems is concerned with the development of procedures that are effective and efficient, computer languages suitable for starting these procedures, and systems for executing the procedures. This may include the ability to write programs in Visual BASIC, C++ or Java, experience microcomputer data processing applications such as Excel or Access, and ability to structure data for the computer. 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):

Students will know how to use PC maintenance and troubleshooting software.

Take ALL of the following courses:	Units
Computer Science 135, Software Deployment Mechanisms	1.5
Computer Science 136, Building a Small Office/Home Office Network	1.5
Computer Science 137, Personal Computer Troubleshooting	3
Computer Science 139, Configuration and Administration of Local Area Networks	1.5
Computer Science 173, Introduction to Networking Technology	3

Select ONE course from the following:	Units
Computer Science 134B, Windows Vista Operating System (3)	3
—OR—	
Computer Science 134C, Windows 7 Operating System (3)	
—OR—	
Computer Science 134D, Microsoft Windows 8 Operating System (3)	

Select ONE course from the following:	Units
Computer Science 247B, Microsoft Windows Server 2008 (3)	3
—OR—	
Computer Science 247C, Windows Small Business Server (SBS) 2011–Standard (3)	
—OR—	
Computer Science 247D, Windows Server 2012 (3)	
Total	16.5

UNIX Certificate (Untranscribed)

Program code: sac.cisux.cert

Learning Outcome(s):

Students will know how to use Unix software.

Take ALL of the following courses:	Units
Computer Science 117, Perl Programming and CGI	3
Computer Science 141, UNIX Operating System	3
Computer Science 142, Advanced UNIX	3
Computer Science 243, UNIX System Programming	3
Total	12

Web Programming Certificate (Untranscribed)

Program code: sac.ciswp.cert

Learning Outcome(s):

Students will know how to use web programming software.

Take the following 3 courses:	Units
Computer Science 105, Visual BASIC Programming	3
Computer Science 205, Advanced Visual BASIC	3
Computer Science 206, Visual BASIC for Web Development	3

Select ONE course from the following:	Units
Computer Science 112, Java Programming (3)	3
—OR—	
Computer Science 213, C# Programming (3)	

Select ONE course from the following:	Units
Computer Science 117, Perl Programming and CGI (3)	3
—OR—	
Computer Science 118, JavaScript Programming (3)	3
—OR—	
Computer Science 214, XML Programming (3)	
Total	15

COMPUTER RELATED PROGRAMS

The Rancho Santiago Community College District offers two major programs, which are described below.

COMPUTER INFORMATION SYSTEMS

(See Page 77)

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 Business 150.

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.



Option 1 Computer Science Degree Program code: sac.cmpr.as

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.

Major requirements for the associate in science degree:

Learning Outcome(s):

Students will know how to use computer science software.

Take ALL of the following courses:	Units
Computer Science 100, The Computer and Society	3
Computer Science 120, Introduction to Programming	3
Computer Science 121, Programming Concepts	3
Computer Science 129, Introduction to Computer Organization	4
Computer Science 131, Data Structures Concepts	3

Select ONE course from the following:	Units
Computer Science 112, Java Programming (3)	3
Computer Science 205, Advanced Visual BASIC (3)	
Computer Science 213, C# Programming (3)	

Select an additional SIX units from the following:	Units	
Computer Science 112, Java Programming (3)	6	
Computer Science 117, Perl Programming and CGI (3)		
Computer Science 118, JavaScript Programming (3)		
Computer Science 134B, Windows Vista Operating System (3)		
Computer Science 134C, Microsoft Windows 7 Operating System (3)		
Computer Science 134D, Microsoft Windows 8 Operating System (3)		
Computer Science 135, Software Deployment Mechanisms (1.5)		
Computer Science 139, Configuration and Administration of Local Area Networks (1.5)		
Computer Science 140, Discrete Structures for Computer Science (3)		
Computer Science 141, UNIX Operating System (3)		
Computer Science 142, Advanced Unix (3)		
Computer Science 205, Advanced Visual Basic (3)		
Computer Science 213, C# Programming (3)		
Computer Science 243, UNIX System Programming (3)		
Computer Science 247B, Windows Server 2008 (3)		
Computer Science 247C, Windows Small Business Server (SBS)2011-Standard (3)		
Computer Science 247D, Windows Server 2012 (3)		
Computer Science 248, Microsoft SQL Server (3)		
Computer Science 249, Microsoft Internet Information Server (IIS), (3)		
Mathematics 180, Analytic Geometry and Calculus (4)		
Mathematics 185, Analytic Geometry and Calculus (4)		
Total		25

Option 2 Associate in Science in Computer Science for Transfer Program code: sac.cmpr.ast

The Associate in Science in Computer Science for Transfer (A.S.-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 (A.S.-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 28 of the SAC catalog for a list of additional requirements for all Associate in Arts for Transfer (A.A.-T) and Associate in Science for Transfer (A.S.-T) degrees.*

Upon completion of this degree (A.S.-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):

Students will know how to use computer science software.

Required Core (29 units)	Units
Computer Science 121, Programming Concepts	3
Computer Science 131, Data Structures Concepts	3
Computer Science 129, Introduction to Computer Organization	4
Computer Science 140, Discrete Structures for Computer Science	3
Mathematics 180, Analytic Geometry and Calculus I	4
—OR—	
Mathematics 180H, Honors Analytic Geometry and Calculus I	4
Mathematics 185, Analytic Geometry and Calculus II	4
Physics 217, Engineering Physics I	4
Physics 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 (Transcripted) Program code: sac.cmpr.ca

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):

Students will know how to use computer science software.

**Major requirements for the certificate:**

Take ALL of the following courses:	Units
Computer Science 100, The Computer and Society	3
Computer Science 120, Introduction to Programming	3
Computer Science 121, Programming Concepts	3
Computer Science 129, Introduction to Computer Organization	4
Computer Science 131, Data Structures Concepts	3
Select ONE course from the following:	3
Computer Science 112, Java Programming (3)	
Computer Science 205, Advanced Visual BASIC	
Computer Science 213, C# Programming	
Select an additional SIX units from the following:	6
Computer Science 112, Java Programming (3)	
Computer Science 117, Perl Programming and CGI (3)	
Computer Science 118, JavaScript Programming (3)	
Computer Science 134B, Windows Vista Operating System (3)	
Computer Science 134C, Microsoft Windows 7 Operating System (3)	
Computer Science 134D, Microsoft Windows 8 Operating System (3)	
Computer Science 135, Software Deployment Mechanisms (1.5)	
Computer Science 139, Configuration and Administration of Local Area Networks (1.5)	
Computer Science 140, Discrete Structures for Computer Science (3)	
Computer Science 141, UNIX Operating System (3)	
Computer Science 142, Advanced Unix (3)	
Computer Science 205, Advanced Visual Basic (3)	
Computer Science 213, C# Programming (3)	
Computer Science 243, UNIX System Programming (3)	
Computer Science 244, Microsoft Exchange Server (3)	
Computer Science 247B, Windows Server 2008 (3)	
Computer Science 247C, Windows Small Business Server (SBS)2011-Standard (3)	
Computer Science 247D, Windows Server 2012 (3)	
Computer Science 248, Microsoft SQL Server (3)	
Computer Science 249, Microsoft Internet Information Server (IIS), (3)	
Mathematics 180, Analytic Geometry and Calculus (4)	
Mathematics 185, Analytic Geometry and Calculus (4)	
Total	25

Programming Certificate (Untranscribed)

Program code: sac.cmrp.cert

Learning Outcome(s):

Students will know how to use programming software.

Take ALL of the following courses:	Units
Computer Science 120, Introduction to Programming	3
Computer Science 121, Programming Concepts	3
Computer Science 131, Data Structures Concepts	3
Select ONE course from the following:	
Computer Science 112, Java Programming (3)	3
—OR—	
Computer Science 205, Advanced Visual BASIC (3)	
—OR—	
Computer Science 213, C# Programming (3)	
Total	12

CRIMINAL JUSTICE

The Criminal Justice Option Degree curriculum is designed to prepare students for entry-level employment in local state, federal, or private 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.

Option 1 Criminal Justice Option Degree

Program code: sac.cj.aa

Major requirements for the Criminal Justice Associate in Arts Degree:**Learning Outcome(s):**

1. Students will develop critical thinking and ethical reasoning skills.
2. Students will successfully pursue and be prepared for careers in Criminal Justice.

Course	Units
Criminal Justice 101, Introduction to Criminal Justice	3
Criminal Justice 102, Introduction to Corrections	3
Criminal Justice 103, Concepts of Criminal Law	3
Criminal Justice 105, Legal Aspects of Evidence	3
Criminal Justice 107, Principles and Procedures in the Criminal Justice System	3
Criminal Justice 109, Community Interaction	3
Criminal Justice 148, Report Writing for Criminal Justice Personnel	3
Electives 6 units: Select electives from the following list:	6
Criminal Justice 104, Prison Experience (3)	
Criminal Justice 106, Coroner Death Investigation (3)	
Criminal Justice 108, Crime Scene Investigation (3)	
Criminal Justice 110, Street Gangs (3)	
Criminal Justice 205, Criminal Investigation Principles (3)	
Criminal Justice 209, Organized Crime (3)	
Criminal Justice 210, Drug Abuse and Criminal Justice (3)	
Criminal Justice 220, Juvenile Delinquency and Control (3)	
Total	27

Completion of Criminal Justice Academies 100, Basic Police Academy, will satisfy the requirements in lieu of the above 6 units of electives. All students must complete the basic seven-course core curriculum to qualify for the degree.

Option 2 Associate in Science in Administration of Justice for Transfer

Program code: sac.cj.ast

The Associate in Science in Administration of Justice for Transfer (A.S.-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 A.S.-T degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU, in the Criminal Justice major. **See page 28 for a list of additional requirements for all Associate in Arts for Transfer (A.A.-T) and Associate in Science for Transfer (A.S.-T) degrees.** Upon completion of the A.S.-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. Students will develop critical thinking and ethical reasoning skills.
2. Students will successfully pursue and be prepared for careers in Criminal Justice.

Required Core (6 units)	Units
Criminal Justice 101, Introduction to Criminal Justice	3
Criminal Justice 103, Concepts of Criminal Law	3

List A - Select two courses (6 units)	6
Criminal Justice 102, Introduction to Corrections (3)	
Criminal Justice 105, Legal Aspects of Evidence (3)	
Criminal Justice 107, Principles and Procedures in the Criminal Justice System (3)	
Criminal Justice 108, Crime Scene Investigation (3)	
Criminal Justice 109, Community Interaction (3)	
Criminal Justice 205, Criminal Investigation Principles	
Criminal Justice 220, Juvenile Delinquency and Control (3)	

List B - select two course (6-8 units)	6-8
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Any course from List A not already used

Mathematics 219, Statistics and Probability (4)	
—OR—	
Mathematics 219H, Honors Statistics and Probability (4)	
—OR—	
Social Science 219, Statistics and Probability (4)	
—OR—	
Social Science 219H, Honors Statistics and Probability (4)	
Philosophy 110, Critical Thinking (4)	
—OR—	
Philosophy 110H, Honors Critical Thinking (4)	
Philosophy 111, Introductory Logic (4)	
Political Science 101, Introduction to American Governments (3)	
—OR—	
Political Science 101H, Honors Introduction to American Governments (3)	
Psychology 100, Introduction to Psychology (3)	
—OR—	
Psychology 100H, Honors Introduction to Psychology (3)	
Sociology 100, Introduction to Sociology (3)	
—OR—	
Sociology 100H, Honors Introduction to Sociology (3)	
Criminal Justice 106, Coroner Death Investigations (3)	
Criminal Justice 210, Drug Abuse and Criminal Justice (3)	
Total	18-20

Corrections Officer Program Certificate (Untranscribed)

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, correction, courts, and private security, and leads to completion of the Criminal Justice Option Degree.

Learning Outcome(s):

1. Students will develop critical thinking and ethical reasoning skills.
2. Students will successfully pursue and be prepared for careers in Criminal Justice.

Course	Units
Criminal Justice 101, Introduction to Criminal Justice	3
Criminal Justice 102, Introduction to Corrections	3
Criminal Justice 103, Concepts of Criminal Law	3
Criminal Justice 105, Legal Aspects of Evidence	3
Criminal Justice 148, Report Writing for Criminal Justice Personnel	3
Criminal Justice 205, Criminal Investigation	3
Total	18

Law Enforcement Option Certificate (Transcribed)
Program code: sac.cjle.ca

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 (CJA100A). Students interested in this certificate should contact an academic counselor, the Criminal Justice Academies, and the Criminal Justice Department for details.

Major requirements for the certificate:

Learning Outcome(s):

1. Students will develop critical thinking and ethical reasoning skills.
2. Students will successfully pursue and be prepared for careers in Criminal Justice.

Course	Units
Criminal Justice Academies 010, Pre-Employment Preparation for Law Enforcement	1
Criminal Justice Academies 100A, Basic Police Academy	20-21.3
Criminal Justice 101, Introduction to Criminal Justice	3
Criminal Justice 103, Concepts of Criminal Law	3
Criminal Justice 105, Legal Aspects of Evidence	3
Criminal Justice 107, Principles and Procedures in the Criminal Justice System	3
Criminal Justice 109, Community Interaction	3
Total	36-37.3

DANCE

Dance Program A-Dance Degree
Program code: sac.dnce.aa

The associate in 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 in 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. Students will demonstrate competency and experience in the creation and presentation of public performances of dance.
2. Students will possess proficient skills and technique in modern dance and ballet, with competency in jazz dance, enabling students to transfer as juniors to a 4-year college dance program.
3. Students will develop a clear understanding of the interaction between choreographer, performer and audience and the areas of lighting, costume and set designers through the creation and presentation of public performances in dance.



Major requirements for the associate degree in dance:

Course	Units
Dance 100, Dance History and Appreciation —ok—	3
Dance 100H, Honors Dance History and Appreciation	2
Dance 201B, Ballet II	2
Dance 202B, Choreography for Dance Majors	3
Dance 204A, Dance Production	2
Dance 204B, Dance Production	2
Dance 205, Performance Ensemble	2
Dance 206B, Modern Dance II	2
Dance 209, Modern Dance III	2
Dance 210, Modern Dance IV	2
Dance 213, Ballet III	2
Dance 214, Ballet IV	2
Dance 219B, Jazz Dance II	2
Dance 220, Jazz Dance III	2
Dance 221, Jazz Dance IV	2
Dance 260, Somatic Practices in Dance	3
Plus 2 units from the following electives:	2
Dance 009A, Dance Laboratory I (0.5)	
Dance 009B, Dance Laboratory II (0.5)	
Dance 010A, Advanced Dance Laboratory I (0.5)	
Dance 010B, Advanced Dance Laboratory II (0.5)	
Dance 102, Introduction to Dance Forms (3)	
Dance 103, Dance and Movement for Educators (3)	
Dance 105, World Dance and Cultures (3)	
Dance 106A, Introduction to Modern Dance (1)	
Dance 106B, Introduction to Modern Dance (1)	
Dance 107, Dance Concert Performance (1)	
Dance 108A, Introduction to Ballet (1)	
Dance 108B, Introduction to Ballet (1)	
Dance 110, Beginning Mexican Folk Dance (1)	
Dance 111, Intermediate Mexican Folk Dance (1)	
Dance 112, Ethnic Dance (1)	
Dance 117, Introduction to Middle Eastern Dance (1)	
Dance 118, Introduction to Caribbean and Latin Dance Styles (1)	
Dance 119A, Introduction to Jazz Dance (1)	
Dance 119B, Introduction to Jazz Dance (1)	
Dance 120A, Introduction to Hip-Hop Dance (1)	
Dance 120B, Intermediate Hip-Hop Dance (1)	
Dance 122, Commercial Contemporary Dance (1)	
Dance 123, Introduction to Salsa Dance (1)	
Dance 124, Intermediate Salsa Dance (1)	
Dance 130, Dance Improvisation (1)	
Dance 140, Dance Repertory Workshop (1)	
Dance 180, Professional Studio Practices (1)	
Dance 201A, Ballet I (2)	
Dance 202A, Choreography (3)	
Dance 206A, Modern Dance I (2)	
Dance 219A, Jazz Dance I (2)	
Dance 240A, Repertory, I (2)	
Dance 240B, Repertory, II (2)	
Dance 250A, Hip Hop Dance I (2)	
Dance 250B, Hip Hop Dance II (2)	
Dance 251, Hip Hop Dance III (2)	
Dance 261, Somatic Practices in Modern Dance (1)	
Dance 262, Somatic Practices in Ballet (1)	
Dance 263, Somatic Practices in Jazz Dance (1)	
Dance 270, Dance Internship (2)	
Dance 296, Special Studies in Modern Dance (1)	
Dance 297, Special Studies in Jazz Dance (1)	
Dance 298, Special Studies in Dance (1)	
Total	35

Dance Certificate (Transcripted)

Program code: sac.dnce.ca

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. Students will demonstrate competency and experience in the creation and presentation of public performances of dance.
2. Students will possess proficient skills and technique in modern dance and ballet, with competency in jazz dance, enabling students to transfer as juniors to a 4-year college dance program.
3. Students will develop a clear understanding of the interaction between choreographer, performer and audience and the areas of lighting, costume and set designers through the creation and presentation of public performances in dance.

Requirements for the certificate:

Course	Units
Dance 122, Commercial Contemporary Dance	1
Dance 180, Professional Studio Practices	1
Dance 202B, Choreography for Dance Majors	3
Dance 204A, Dance Production	2
Dance 205, Performance Ensemble	2
Dance 209, Modern Dance III	2
Dance 210, Modern Dance IV	2
Dance 213, Ballet III	2
Dance 214, Ballet IV	2
Dance 220, Jazz Dance III	2
Dance 221, Jazz Dance IV	2
Dance 240A, Repertory I	2
Dance 240B, Repertory II	2
Dance 251, Hip Hop Dance III	2
Electives from recommended list	2
Total	29

Recommended electives: Dance 009, 010, 105, 107, 109A, 109B, 109C, 110, 111, 112, 117, 118, 123, 124, 130, 198, 250A, 250B, 260, 261, 262, 263, 270, 296, 297, 298; Television/Video Communications 110; Theatre Arts 110, 113, 132.

Data Processing

(See Computer Information Systems.)



DIESEL TECHNOLOGY

Diesel and Heavy Equipment Technology Degree

Program code: sac.dsl.as

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 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):

1. Students will successfully pass a comprehensive online course on Shop Safety.
2. Students will successfully pass a comprehensive online course on Shop Environmental Concerns.

Major requirements for the associate degree:

Course	Units
Diesel 108, Oxyacetylene-Arc Welding	3
Diesel 109, Truck Chassis: Brake and Suspension Service	4
Diesel 110, Truck Chassis: Drive Train Service	4
Diesel 125, Heavy Duty Diesel Engine: Top End Service	4
Diesel 126, Heavy Duty Diesel Engine: Bottom End Service	4
Diesel 132, Diesel Fuel Injection Systems Service	5
Diesel 140, Diesel Electrical Systems	5

Choose 3 units from the following electives: 3

Diesel 101, Truck Preventative Maintenance (5)	
Diesel 113, Allison Transmission Service (5)	
Diesel 115, Introduction to Heavy Duty Mobile Hydraulics (5)	
Diesel 121, Mid-Range Diesel Engine Service (4.5)	
Diesel 122, Electronics Fundamentals (5)	
Diesel 160, Foundations of Mobile Air Conditioning and Refrigeration (5)	
Diesel 162, Air Conditioning and Heating (3)	
Diesel 202, Introduction to Coach Operations (1)	
Diesel 203, Transit Vehicle Electrical Systems (2)	
Diesel 204, Transit Vehicle Air Systems (0.5)	
Diesel 205, Transit Vehicle Air Brake Systems (1)	
Diesel 206, Transit Vehicle Automatic Transmissions (1.5)	
Diesel 207, Transit Vehicle Engines (2.5)	
Diesel 208, Transit Vehicle Heating, Ventilation, Air Conditioning (1.5)	
Diesel 209, Transit Vehicle Drive Train Suspension (1)	
Diesel 210, Transit Vehicle Wheelchair Lifts (0.5)	
Diesel 287, Alternative Fuels (3)	
Diesel 288, Diesel Engines: Light-Medium Duty Systems (3)	
Total	32

Diesel and Heavy Equipment Technology Certificate (Transcripted)

Program code: sac.dsl.ca

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):

1. Students will successfully pass a comprehensive online course on Shop Safety.
2. Students will successfully pass a comprehensive online course on Shop Environmental Concerns.

Requirements for the certificate:

Course	Units
Diesel 108, Oxyacetylene-Arc Welding	3
Diesel 109, Truck Chassis: Brake and Suspension Service	4
Diesel 110, Truck Chassis: Drive Train Service	4
Diesel 125, Heavy Duty Diesel Engine: Top End Service	4
Diesel 126, Heavy Duty Diesel Engine: Bottom End Service	4
Diesel 132, Diesel Fuel Injection Systems Service	5
Diesel 140, Diesel Electrical Systems	5
Total	29

Mid-Range Engine Service Option Degree

Program code: sac.dslmr.as

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):

1. Students will successfully pass a comprehensive online course on Shop Safety.
2. Students will successfully pass a comprehensive online course on Shop Environmental Concerns.

Major requirements for the associate degree:

Course	Units
Diesel 108, Oxyacetylene-Arc Welding	3
Diesel 121, Mid-Range Diesel Engine Service	4.5
Diesel 125, Heavy Duty Diesel Engine: Top End Service	4
Diesel 126, Heavy Duty Diesel Engine: Bottom End Service	4
Diesel 140, Diesel Electrical Systems	5

Choose 3 units from the following electives: 3

Diesel 101, Truck Preventative Maintenance (5)	
Diesel 122, Electronics Fundamentals (5)	
Diesel 160, Foundations of Mobile Air Conditioning and Refrigeration (5)	
Diesel 162, Air Conditioning and Heating (3)	
Diesel 165 Transport Refrigeration (5)	
Diesel 287, Alternative Fuels (3)	
Diesel 288, Diesel Engines: Light-Medium Duty Systems (3)	

Total 23.5



Mid-Range Engine Service Option Certificate (Transcripted)

Program code: **sac.ds1mr.ca**

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):

1. Students will successfully pass a comprehensive online course on Shop Safety.
2. Students will successfully pass a comprehensive online course on Shop Environmental Concerns.

Major requirements for the certificate:

Course	Units
Diesel 108, Oxyacetylene-Arc Welding	3
Diesel 121, Mid-Range Diesel Engine Service	4.5
Diesel 125, Heavy Duty Diesel Engine: Top End Service	4
Diesel 126, Heavy Duty Diesel Engine: Bottom End Service	4
Diesel 140, Diesel Electrical Systems	5
Total	20.5

Transport Refrigeration/Temperature Control Option Certificate (Untranscripted)

Program code: **sac.ds1tr.cert**

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.

Learning Outcome(s):

1. Students will successfully pass a comprehensive online course on Shop Safety.
2. Students will successfully pass a comprehensive online course on Shop Environmental Concerns.

Major requirements for the certificate:

Course	Units
Diesel 121, Mid-Range Diesel Engine Service (4.5)	4.5-5
—OR—	
Diesel 132, Diesel Fuel Injection Systems Service (5)	
Diesel 140, Diesel Electrical Systems	5
Diesel 160, Foundations of Mobile Air Conditioning and Refrigeration	5
Diesel 165, Transport Refrigeration	5
Total	19.5-20

Heavy Duty Chassis Service Certificate (Untranscripted)

Program code: **sac.ds1hd.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):

Students will demonstrate a working knowledge of modern heavy duty chassis systems. Students will be trained in correct use of heavy duty chassis repair equipment and maintenance procedures.

Course	Units
Diesel 109, Truck Chassis: Brake and Suspension Service	4
Diesel 110, Truck Chassis: Drive Train Service	4
Total	8

Heavy Duty Diesel Engine Service Certificate (Untranscripted)

Program code: **sac.ds1de.cert**

The Heavy Duty Diesel Engine Service Certificate program prepares the student for employment in industry. The servicing of these modern engines includes training on safety, teardown and assembly procedures, measurement, and diagnosis. Hands-on practical experience is emphasized. This certificate would prepare the student for national ASE T1 certification.

Learning Outcome(s):

Students will demonstrate a working knowledge of modern heavy duty engine systems. Students will be trained in heavy duty engine teardown / assembly and measurement procedures.

Course	Units
Diesel 125, Heavy Duty Diesel Engine: Top End Service	4
Diesel 126, Heavy Duty Diesel Engine: Bottom End Service	4
Total	8

Truck Air Conditioning Service Certificate (Untranscripted)

Program code: **sac.ds1lac.cert**

The Truck Air Conditioning Service 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 T6 and EPA 609 certifications.

Learning Outcome(s):

Students will demonstrate a working knowledge of modern truck air conditioning systems. Students will be trained in correct use of truck air conditioning equipment and maintenance procedures.

Course	Units
Diesel 160, Foundations of Mobile Air Conditioning and Refrigeration	5
Diesel 162, Air Conditioning and Heating	3
Total	8



Alternative Fuels – Clean Diesel Certificate (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):

1. Learning about alternative fuels in the industry will enhance students' critical thinking and reasoning skills.
2. Offer course content that assists students in obtaining careers in the diesel industry.

Course	Units
Diesel 132, Diesel Fuel Injection Systems Service	5
Diesel 287, Alternative Fuels	3
Diesel 288, Diesel Engines: Light-Medium Duty Systems	3
Total	11

Transit Bus Maintenance Certificate (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 Diesel 202 course. This equipment includes: Approved ANSI Safety Glasses, Reflective Safety Vest, and Steel-Toed Shoes.

Learning Outcome(s):

1. Learning about Transit Bus Maintenance including coach operations and wheelchair lifts.
2. Offer course content that assists students in obtaining their certification in Transit Bus Maintenance.

Course	Units
Diesel 202, Introduction to Coach Operations	1
Diesel 203, Transit Vehicle Electrical Systems	2
Diesel 204, Transit Vehicle Air Systems	0.5
Diesel 205, Transit Vehicle Air Brake Systems	1
Diesel 206, Transit Vehicle Automatic Transmissions	1.5
Diesel 207, Transit Vehicle Engines	2.5
Diesel 208, Transit Vehicle Heating, Ventilation, Air Conditioning	1.5
Diesel 209, Transit Vehicle Drive Train Suspension	1
Diesel 210, Transit Vehicle Wheelchair Lifts	0.5
Total	11.5

Drafting Technology

(See *Engineering*.)

Dressmaking and Alterations

(See *Fashion Design and Custom Clothing*.)

EARTH SCIENCE

Earth Science Degree

Program code: sac.es.aa

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):

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.

Major requirements for the associate in arts degree:

Course	Units
Astronomy 110, Introduction to Stars and Galaxies	3
Astronomy 140, Astronomy Laboratory	1
Chemistry 209, Introduction to Chemistry —OR—	4
Chemistry/Physical Science 115, Physical Science for Educators*	
Earth Science 115, Earth Science for Educators* —OR—	
Geology 101, Introduction to Geology —AND—	4
Geology 101L, Introduction to Geology Laboratory	
Geology/Environmental Studies 140, Environmental Geology	3
Geology/Earth Science 150, Introduction to Oceanography —OR—	3
Geology/Earth Science 150H, Honors Introduction to Oceanography	
Geology 201, Introduction to Historical Geology	4
Electives	2
Total	24

Electives: Geology 112, 162, 164, 168, 169, 170, 171, 172, 173, 174

*Recommended courses for those preparing to teach middle school science.

ECONOMICS

Option 1

Economics Degree

Program code: sac.econ.aa

The associate degree curriculum 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):**

1. Students will communicate using basic economic terminology, interpret relevant economic data, and follow and construct fundamental economic arguments.
2. 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.
3. 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.

Major requirements for the associate in arts degree:

Course	Units
Accounting 101, Financial Accounting —OR—	4
Accounting 101H, Honors Financial Accounting	
Accounting 102, Managerial Accounting —OR—	4
Accounting 102H, Honors Managerial Accounting	
Economics 120, Principles/Macro	3
Economics 121, Principles/Micro	3
**Social Science 219, Statistics and Probability —OR—	4
**Social Science 219H, Honors Statistics and Probability	
Business 150, Introduction to Information Systems and Applications —OR—	4
*Mathematics 145, Finite Mathematics	
Total	22

* Mathematics course chosen should be determined by the requirements of the intended upper-division school of the student's choice.

** Social Science 219/219H is alternately listed as Mathematics 219/219H.

Recommended electives: Business 101, 102, 120.

Option 2**Associate in Arts in Economics for Transfer**

Program code: sac.econ.aat

The Associate in Arts in Economics for Transfer (A.A.-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 (A.A.-T in Economics) also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU. **See page 28 for a list of additional requirements for all Associate in Arts for Transfer (A.A.-T) and Associate in Science for Transfer (A.S.-T) degrees.** Upon completion of the Associate in Arts in Economics for Transfer (A.A.-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.

Required Core:

Course	Units
Economics 120, Principles/Macro	3
Economics 121, Principles/Micro	3
Mathematics 219, Statistics and Probability (4) —OR—	
Mathematics 219H, Honors Statistics and Probability (4) —OR—	
Psychology 210, Statistics for the Behavioral Sciences (4)	
Mathematics 150, Calculus for Biological, Management and Social Sciences (4) —OR—	4
Mathematics 180, Analytic Geometry and Calculus (4) —OR—	
Mathematics 180H, Honors Analytic Geometry and Calculus (4)	

List A: Select one (3-5 units)

Mathematics 140, College Algebra (4)	
Mathematics 145, Finite Mathematics (4)	
Mathematics 160, Trigonometry (4)	
Mathematics 170, Pre-Calculus Mathematics (4)	
Mathematics 185, Analytic Geometry and Calculus (4)	
Mathematics 287, Introduction to Linear Algebra and Differential Equations (5)	
English 102, Literature and Composition (4)	3-5
English 102H, Honors Literature and Composition (4)	
English 103, Critical Thinking and Writing (4)	
English 103H, Honors Critical Thinking and Writing (4)	
Philosophy 110, Critical Thinking (4)	
Philosophy 110H, Honors Critical Thinking (4)	
Business 105, Legal Environment of Business 3	
Business 150, Introduction to Information Systems and Applications (3)	
Business 222, Business Writing (3)	
Accounting 101, Financial Accounting (4)	
Accounting 102, Managerial Accounting (4)	

List B: Select one course (3-5 units)

Any course not used in list A —OR—	3-5
Mathematics 280, Intermediate Calculus (4)	

Total 20-24

EDUCATION**Option 1****Elementary Education Degree (Pre-Professional)**

Program code: sac.educe.aa

The Associate in 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 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.

**Learning Outcome(s):**

1. Students will demonstrate a knowledge base of theory specific to childhood (1st-6th grade) education.
2. Students will apply the knowledge base of theory to practice through thoughtful reflections on classroom observations.
3. Students will understand and be conversant about the main philosophical and sociological ideas and trends that have influenced education as well as be able to analyze their application and importance for teaching today.

Major requirements for the associate degree:

Course	Units
Education 100, Introduction to Education	3
Child Development 107, Child Growth and Development (DS1) —OR—	3
Psychology 157, Introduction to Child Psychology	
Biology 115, Concepts in Biology for Educators —OR—	
Earth Science 115, Earth Science for Educators —OR—	4
Physical Science 115, Concepts in Physical Sciences for Educators —OR—	
Chemistry 115, Concepts in Physical Science for Educators	
Mathematics 105, Mathematics for Liberal Arts Students (3) —OR—	3-4
Mathematics 204, Mathematical Concepts for Elementary School Teachers (4)	
English 270, Children's Literature	3
History 120, The United States to 1865 —OR—	
History 120H, Honors The United States to 1865 —OR—	
History 118, Social and Cultural History of the United States —OR—	
Political Science 101, Introduction to American Government —OR—	3
Political Science 101H, Honors Introduction to American Government —OR—	
Geography 100, World Regional Geography —OR—	
Geography 100H, Honors World Regional Geography	
Art 100, Introduction to Art Concepts —OR—	
Art 100H, Honors Introduction to Art Concepts —OR—	
Art 101, Survey of Western Art History I: Prehistory through the Middle Ages —OR—	
Art 102, Survey of Western Art History II: Renaissance through the Twentieth Century —OR—	
Dance 100, Dance History and Appreciation —OR—	3
Dance 100H, Honors Dance History and Appreciation —OR—	
Dance 102, Introduction to Dance Forms —OR—	
Music 101, Music Appreciation —OR—	
Music 101H, Honors Music Appreciation —OR—	
Theatre Arts 100, Introduction to Theatre	
And ONE of the Following:	3
Communication Studies 102, Public Speaking (3)	
Interdisciplinary Studies 200, Introduction to Liberal Studies (3)	
English 206, Introduction to Language Structure and Use (3)	
Anthropology 104, Language and Culture (3)	
Anthropology 104H, Honors Language and Culture (3)	
History 133, History of California (3)	
Child Development 110, Child, Family and Community (DS2)(3)	
Child Development 205, Exceptionality and Special Needs in Human Development (3)	
Kinesiology Professional 140, Movement Education for Elementary School Children (3)	
Education 205, Personal Proficiency in Educational Technologies for Elementary Teachers (3)	
Total	25-26

Option 2**Associate in Arts in Elementary Teacher Education for Transfer****Program code: sac.eted.aat**

The Associate in Arts in Elementary Teacher Education for Transfer (A.A.-T) 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 A.A.-T 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 28 for a list of additional requirements for all Associate in Arts for Transfer (A.A.-T) and Associate in Science for Transfer (A.S.-T) degrees.** Upon completion of the A.A.-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. Students will demonstrate a knowledge base of theory specific to childhood (1st-6th grade) education.
2. Students will apply the knowledge base of theory to practice through thoughtful reflections on classroom observations.
3. Students will understand and be conversant about the main philosophical and sociological ideas and trends that have influenced education as well as be able to analyze their application and importance for teaching today.

Required Core:

Course	Units
Education 100, Introduction to Education	3
Earth Science 115, Earth Science for Educators (4)	
Communication Studies 102, Public Speaking	3
English 101, Freshman Composition —OR—	4
English 101H, Honors Freshman Composition	
Chemistry 115, Concepts in Physical Science for Educators —OR—	4
Physical Science 115, Concepts in Physical Science for Educators	
Biology 115, Concepts in Biology for Educators (4) —OR—	
Biology 109, Fundamentals of Biology (3) —OR—	3-4
Biology 109H, Honors Fundamentals of Biology (3) —AND—	
Biology 109L, Fundamentals of Biology Lab	1
Mathematics 204, Mathematical Concepts for Elementary School Teachers	4
History 101, World Civilizations to the 16th Century —OR—	3
History 101H, Honors World Civilizations to the 16th Century	
English 102, Literature and Composition —OR—	4
English 102H, Honors Literature and Composition	
Geography 100, World Regional Geography —OR—	3
Geography 100H, Honors World Regional Geography	
Political Science 101, Introduction to American Government —OR—	3
Political Science 101H, Honors Introduction to American Government	
History 120, The United States to 1865 —OR—	3
History 120H, Honors The United States to 1865	
Child Development 107, Child Growth and Development —OR—	3
Psychology 157, Introduction to Child Psychology	



- List A - Select ONE of the Following:** 4
- English 103, Critical Thinking and Writing (4)
 - OR—
 - English 103H, Honors Critical Thinking and Writing (4)
 - Philosophy 110, Critical Thinking (4)
 - OR—
 - Philosophy 110H, Honors Critical Thinking (4)

- List B - Select ONE of the Following:** 3
- Art 100, Introduction to Art Concepts (3)
 - OR—
 - Art 100H, Introduction to Art Concepts (3)
 - Dance 100, Dance History and Appreciation (3)
 - OR—
 - Dance 100H, Dance History and Appreciation (3)
 - OR—
 - Dance 102, Introduction to Dance Forms (3)
 - Music 101, Music Appreciation (3)
 - OR—
 - Music 101H, Music Appreciation (3)
 - Theater Arts 100, Introduction to Theater (3)

- List C - Up to 12 units including any course(s) not selected above:** 12
- Interdisciplinary Studies 200, Introduction to Liberal Studies (3)
 - English 206, Introduction to Language Structure and Use (3)
 - OR—
 - English 104, Language and Culture (3)
 - OR—
 - English 104H, Honors Language and Culture (3)
 - OR—
 - Anthropology 104, Language and Culture (3)
 - OR—
 - Anthropology 104H, Honors Language and Culture (3)
 - English 270, Children's Literature (3)
 - English 231, Survey of English Literature (3)
 - English 232, Survey of English Literature (3)
 - English 241, Survey of American Literature 1600-1865 (3)
 - English 242, Survey of American Literature 1865-Present (3)
 - English 271, Survey of World Literature (3)
 - English 272, Survey of World Literature (3)
 - Ethnic Studies 101, Introduction to Ethnic Studies (3)
 - OR—
 - Ethnic Studies 101H, Honors Introduction to Ethnic Studies (3)
 - Mathematics 105, Math for Liberal Arts Students (3)
 - Philosophy 106, Introduction to Philosophy (3)
 - OR—
 - Philosophy 106H, Honors Introduction to Philosophy (3)
 - Philosophy 108, Ethics (3)
 - Philosophy 112, World Religions (3)
 - Education 204, Personal Proficiency in Educational Technology for Secondary Teachers (3)
 - Education 205, Personal Proficiency in Educational Technology for Elementary Teachers (3)
 - Geography 102, Cultural Geography (3)
 - OR—
 - Geography 102H, Honors Cultural Geography (3)
 - Kinesiology Professional 140, Movement Education for Elementary School Children (3)

Total 58

- Learning Outcome(s):**
1. Students will demonstrate a knowledge base of theory specific to childhood (1st-6th grade) education.
 2. Students will apply the knowledge base of theory to practice through thoughtful reflections on classroom observations.
 3. Students will understand and be conversant about the main philosophical and sociological ideas and trends that have influenced education as well as be able to analyze their application and importance for teaching today.

Course	Units
Education 113, Tutoring Reading in Elementary Schools	1
Counseling/Child Development 114, Careers in Teaching	1
Counseling 106, Inquiries into Higher Education	1
Child Development 120A, Development of the School-Age Child	3
Child Development 120B, School-Age Child Care and Recreation Activities	3
Mathematics 060, Elementary Algebra*	4
English 061, Introduction to Composition*	3
Total	16

* Successful course completion or test score

After School Program Associate Teacher Certificate (Untranscribed)
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) counselors at SAC for additional assistance in planning your School-Age profession (714-564-6254).

- Learning Outcome(s):**
1. Students will demonstrate a knowledge base of theory specific to childhood (1st-6th grade) education.
 2. Students will apply the knowledge base of theory to practice through thoughtful reflections on classroom observations.
 3. Students will understand and be conversant about the main philosophical and sociological ideas and trends that have influenced education as well as be able to analyze their application and importance for teaching today.

After School Program Assistant Certificate (Untranscribed)
Program code: sac.educa.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.



Course	Units
Education 113, Tutoring Reading in Elementary Schools	1
Counseling 114, Careers in Teaching —OR—	1
Child Development 114, Careers in Teaching	
Child Development 107, Child Growth and Development (DS1) —OR—	3
Psychology 157, Introduction to Child Psychology	
Child Development 110, Child, Family, and Community (DS2)	3
Child Development 120A, Development of the School-Age Child (DS5)	3
Child Development 120B, School-Age Child Care and Recreation Activities (DS5)	3
Child Development 205, Introduction to Children with Special Needs	3
Dance 102, Introduction to Dance Forms —OR—	
Communication Studies 102, Public Speaking —OR—	3
Kinesiology Professional 140, Movement Education for Elementary School Children	
Total	20

ENGINEERING

Engineering Degree Program code: sac.engr.as

The associate degree curriculum in the engineering program is primarily intended to provide a basic program of engineering courses for students planning to transfer to four-year college or university engineering programs.

The student should be aware the Santa Ana College associate degree requirements are less than full university lower-division engineering requirements and that additional coursework is required. See “Engineering Transfer,” below.

Completion of the associate degree in engineering can also provide the necessary background for immediate employment as a designer, technician, or engineering assistant. Job opportunities exist in both private industry and city, county, and state agencies.

Students interested in the design or practical phases of the engineering profession should take the engineering sequence 122, 124, and 228. These are transferable college or university level courses, giving students a comprehensive preparation in graphic communication and graphic solution of engineering problems. Students interested in the math and science-oriented engineering fields should take Engineering 125.

Learning Outcome(s):

Students will develop the skills and knowledge necessary to select as well as develop engineering careers; produce engineering drawings that conform to industry standards; create engineering drawings in 2D CAD program; and solve problems of calculus, calculus-based physics, and chemistry.

Major requirements for the associate degree:

Course	Units
Engineering 100A, Introduction to Engineering	2
Engineering 122, Engineering Drawing —OR—	3
Engineering 125, Engineering Graphics	
Engineering 183, CAD I-Computer Aided Drafting	3
Engineering 235, Statics	3
Mathematics 180, Analytic Geometry and Calculus I —OR—	4
Mathematics 180H, Honors Analytic Geometry and Calculus	
Mathematics 185, Analytic Geometry and Calculus II	4
Physics 217, Engineering Physics I	4
Physics 227, Engineering Physics II —OR—	4
Physics 237, Engineering Physics III	
Chemistry 219, General Chemistry —OR—	5
Chemistry 219H, Honors General Chemistry	
Total	32

Engineering Transfer

Santa Ana College offers a wide variety of lower-division engineering coursework for transfer to any four-year university or college in California.

Although lower-division engineering course requirements are similar at most universities, important differences do occur. These differences depend upon the university and the specific engineering option the student has selected. Engineering students planning to transfer with upper-division standing at a university should contact the Transfer Center for detailed information concerning specific lower-division course requirements for the various engineering options.

Engineering Technology, Manufacturing Technology, and Industrial Technology Transfer

Technology programs are offered by most area universities. They are bachelor degree curriculums usually offered by the school's Engineering Department. Generally, technology degree programs are less rigorous than traditional engineering programs. Typically, they require one or two semesters of mathematics and one semester of physics. Upper division work is more practical application-oriented than traditional engineering programs.

Additional details concerning technology program transfer are available from the counseling and engineering offices.

Engineering Civil Technology Degree Program code: sac.enrct.as

The associate degree curriculum provides a background for employment in a civil engineering office or for field work in support of and under the direction of a professional engineer or licensed surveyor. Typical employment is in a surveying office recording data, preparing subdivision maps, street and highway proposals, and grading maps. Employment opportunities exist in both private industry and local and county government agencies that employ engineering assistants..

Learning Outcome(s):

Students will be able to identify, analyze, and explain the basic parts of common land surveying instruments and their function by way of a multiple field exercises and cite how accurate surveys can be used to avoid or resolve property legal disputes.

**Major requirements for the associate degree:**

Course	Units
Engineering 100B, Introduction to Architecture/ Civil Engineering/Construction (AEC)	2
Engineering 118, Plane Surveying	4
Engineering 183, CAD I-Computer Aided Drafting	3
Engineering 184, CAD II-Computer Aided Drafting	3
Engineering 191, Civil CAD Concepts	3
Geology 101, Introduction to Geology	3
Geology 101L, Introduction to Geology Laboratory	1
Mathematics 160, Trigonometry	4

Select ONE of the Following:

Engineering 122, Engineering Drawing —OR—	3
Engineering 125, Engineering Graphics	

Select ONE of the Following:

Engineering 119, Advanced Plane Surveying (4) —OR—	3-4
Engineering 205, Civil Digital Computations (3)	
Total	29-30

Engineering-Civil Technology Certificate (Transcripted)**Program code: sac.enrct.ca**

This certificate training provides a background for employment in a civil engineering office or for field work in support of and under the direction of a professional engineer or licensed surveyor. Typical employment is in a surveying office recording data, preparing subdivision maps, street and highway proposals, and grading maps. Employment opportunities exist in both private industry and local and county government agencies that employ engineering assistants.

Learning Outcome(s):

Students will be able to identify, analyze, and explain the basic parts of common land surveying instruments and their function by way of a multiple field exercises and cite how accurate surveys can be used to avoid or resolve property legal disputes.

Major requirements for the certificate:

Course	Units
Engineering 100B, Introduction to Architecture/ Civil Engineering/Construction (AEC)	2
Engineering 118, Plane Surveying	4
Engineering 183, CAD I-Computer Aided Drafting	3
Engineering 184, CAD II-Computer Aided Drafting	3
Engineering 191, Civil CAD Concepts	3
Geology 101, Introduction to Geology	3
Geology 101L, Introduction to Geology Laboratory	1
Mathematics 160, Trigonometry	4

Select ONE of the Following:

Engineering 122, Engineering Drawing —OR—	3
Engineering 125, Engineering Graphics	

Select ONE of the Following:

Engineering 119, Advanced Plane Surveying (4) —OR—	3-4
Engineering 205, Civil Digital Computations (3)	
Total	29-30

Engineering Computer Aided Drafting and Design Degree**Program code: sac.enrca.as**

The Engineering Computer Aided Drafting and Design degree program is for students who have or are working toward an engineering discipline background for transfer or employment and seek competency in Computer Aided parametric 2D and 3D drafting and design. Class problems and project work includes civil, surveying, mechanical, electronic, architecture, and other CADD applications.

Learning Outcome(s):

Students will produce a series of 2D and 3D Parametric CAD technical drawings using several industry CADD applications.

Major requirements for the associate degree:

Core Courses	Units
Engineering 100A, Introduction to Engineering —OR—	2
Engineering 100B, Introduction to Architecture/ Civil Engineering/Construction (AEC)	
Engineering 103, Solidworks Basic Solid Modeling	3
Engineering 122, Engineering Drawing —OR—	3
Engineering 125, Engineering Graphics	
Engineering 183, CAD I-Computer Aided Drafting	3
Engineering 184, CAD II-Computer Aided Drafting	3
Engineering 185, AutoCAD & Customization	3
Engineering 186, AutoCAD 3-Dimensional Drawing	3
Engineering 154, Architecture/Civil Engineering/Construction (AEC) Parametric and BIM Applications	4

Students may also wish to take other Engineering courses from the following recommended list:

Engineering 012, AEC Blueprint Reading (3)	
Engineering 027, Electronic Drafting (3)	
Engineering 051, Basic Technical Drawing (3)	
Engineering 110, Advanced CAD Applications (0.5-4)	
Engineering 114, Geometric Dimensioning and Tolerancing (3)	
Engineering 115, Cooperative Work Experience Education- Occupational (1-16)	
Engineering 124, Advanced Drawing (3)	
Engineering 130A, CATIA Beginning Solid Modeling (3)	
Engineering 130B, CATIA Intermediate Solid Modeling (3)	
Engineering 142, Architecture/Civil Engineering/Construction (AEC) Drawing (4)	
Engineering 187, Advanced 3D Civil CAD (3)	
Engineering 191, Civil CAD Concepts (3)	
Engineering 193, MicroStation 3D (3)	
Total	24

Engineering Computer Aided Drafting and Design Certificate (Transcripted)**Program code: sac.enrca.ca**

The certificate program is for students who have or are working toward an engineering discipline background, and seek competency in Computer Aided parametric 2D and 3D drafting and design. Class problems and project work include civil, surveying, mechanical, electronic, architecture, and other CADD applications.

Learning Outcome(s):

Students will produce a series of 2D and 3D Parametric CAD technical drawings using several industry CADD applications.



Core Courses	Units
Engineering 100A, Introduction to Engineering —OR—	2
Engineering 100B, Introduction to Architecture/ Civil Engineering/Construction (AEC)	
Engineering 122, Engineering Drawing —OR—	3
Engineering 125, Engineering Graphics	
Engineering 183, CAD I-Computer Aided Drafting	3
Engineering 184, CAD II-Computer Aided Drafting	3
Engineering 185, AutoCAD & Customization	3
Engineering 186, AutoCAD 3-Dimensional Drawing	3
Engineering 103, Solidworks Basic Solid Modeling	3
Engineering 154, Architecture/Civil Engineering/Construction (AEC) Parametric and BIM Applications	4
Students may also wish to take other engineering courses from the following recommended list:	
Engineering 012, AEC Blueprint Reading (3)	
Engineering 027, Electronic Drafting (3)	
Engineering 051, Basic Technical Drawing (3)	
Engineering 110, Advanced CAD Applications (0.5-4)	
Engineering 114, Geometric Dimensioning and Tolerancing (3)	
Engineering 115, Cooperative Work Experience Education- Occupational (1-16)	
Engineering 124, Advanced Drawing (3)	
Engineering 130A, CATIA Beginning Solid Modeling (3)	
Engineering 130B, CATIA Intermediate Solid Modeling (3)	
Engineering 140A, Creo Beginning Solid Modeling (3)	
Engineering 140B, Creo Intermediate Solid Modeling (3)	
Engineering 142, Architecture/Civil Engineering/Construction (AEC) Drafting Standards (4)	
Engineering 187, Advanced 3D Civil CAD (3)	
Engineering 191, Civil CAD Concepts (3)	
Engineering 193, MicroStation 3D (3)	
Total	24

Engineering Drafting and Design Option I—Engineering Drafting and Design Degree Program code: sac.enrdd.as

The associate degree curriculum in engineering drafting and design has two options to prepare a student for employment in an engineering, architectural, civil engineering, or a construction office as a drafter, designer, or an engineering technician. Actual work in this field for both options is similar. Job tasks include preparation of drawings and plans (board and computer), sketches, layouts, diagrams, schematics, illustrations, material lists, and size and material specifications. Opportunity for employment exists in both private industry and city and county government agencies which employ drafters, designers, and engineering technicians.

The Option I degree prepares the student for employment as a professional drafter or designer in the mechanical, aerospace, manufacturing, biomedical, or industrial engineering fields. Designer Jobs may additionally require some industry experience. Many courses are applicable to lower-division preparation leading to a bachelor's degree in engineering technology at a four-year institution

Learning Outcome(s):

Students will develop knowledge and skills necessary to select as well as develop engineering careers; be able to produce engineering drawings that conform to industry standards; be able to create parts & drawings using 3D solid modeling software; and fabricate basic parts using standard machining equipment.

Major requirements for the associate degree:

(For the associate degree, students must also complete General Education coursework from plan A, B, or C, per the college catalog.)

Course	Units
Engineering 100A, Introduction to Engineering	2
Engineering 122, Engineering Drawing —OR—	3
Engineering 125, Engineering Graphics	
Engineering 124, Advanced Drawing	3
Engineering 130A, CATIA Beginning Solid Modeling	3
Engineering 158, Basic Machining Concepts and Operations	3
Engineering 183, CAD I-Computer Aided Drafting	3
Select six (6) additional units from the following list:	6
Engineering 027, Electronic Drafting (3)	
Engineering 051, Basic Technical Drawing (3)	
Engineering 103, Solidworks Basic Solid Modeling (3)	
Engineering 110, Advanced CAD Applications (0.5-1)	
Engineering 114, Geometric Dimensioning and Tolerancing (3)	
Engineering 130B, CATIA Intermediate Solid Modeling (3)	
Manufacturing Technology, 028 Basic Metals Technology (3)	
Mathematics 160, Trigonometry (4)	
Total	23

Engineering Drafting and Design Option I— Engineering Drafting and Design Certificate (Transcribed)

Program code: sac.enrdd.ca

The certificate curriculum in engineering drafting and design has two options to prepare a student for employment in an engineering, architectural, civil engineering, or a construction office as a drafter, designer, or an engineering technician. Actual work in this field for both options is similar. Job tasks include preparation of drawings and plans (board and computer), sketches, layouts, diagrams, schematics, illustrations, material lists, and size and material specifications. Opportunity for employment exists in both private industry and city and county government agencies which employ drafters, designers, and engineering technicians.

The Option I certificate prepares the student for employment as a professional drafter or designer in the mechanical, aerospace, manufacturing, biomedical, or industrial engineering fields. Designer Jobs may additionally require some industry experience. Many courses are applicable to lower-division preparation leading to a bachelor's degree in engineering technology at a four-year institution.

Learning Outcome(s):

Students will develop knowledge and skills necessary to select & develop engineering careers; be able to produce engineering drawings that conform to industry standards; be able to create parts & drawings using 3D solid modeling software; fabricate basic parts using standard machining equipment.

**Major requirements for the certificate:**

Course	Units
Engineering 100A, Introduction to Engineering	2
Engineering 122, Engineering Drawing	3
—OR—	
Engineering 125, Engineering Graphics	3
Engineering 124, Advanced Drawing	
Engineering 130A, CATIA Beginning Solid Modeling	3
Engineering 158, Basic Machining Concepts and Operations	3
Engineering 183, CAD I-Computer Aided Drafting	3
Select six (6) additional units from the following list:	6
Engineering 027, Electronic Drafting (3)	
Engineering 051, Basic Technical Drawing (3)	
Engineering 103, Solidworks Basic Solid Modeling (3)	
Engineering 110, Advanced CAD Applications (0.5-1)	
Engineering 114, Geometric Dimensioning and Tolerancing (3)	
Engineering 130B, CATIA Intermediate Solid Modeling (3)	
Manufacturing Technology, 028 Basic Metals Technology (3)	
Mathematics 160, Trigonometry (4)	
Total	23

Engineering Drafting and Design Degree Option II- Architectural/Civil Engineering/Construction Drafting and Design Degree

Program code: sac.enrce.as

This option is designed specifically to prepare the student for employment as a professional drafter/designer in the Architectural, Civil Engineering and Construction fields (AEC). The drafter/designer works closely with the architect, developer and other professionals in the development and construction of AEC projects.

Learning Outcome(s):

Students will acquire knowledge of AEC terms, abbreviations, graphics and standards for application and preparation of AEC drawings and plans.

Major requirements for the associate degree:

Course	Units
Engineering 100B, Introduction to Architecture/Civil Engineering/Construction (AEC)	2
Engineering 112, Society and the Built Environment	3
Engineering 142, Architecture/Engineering/Construction Drafting Standards	4
Engineering 154, Architecture/Civil Engineering/Construction (AEC) Parametric and BIM Applications	4
Engineering 183, CAD I-Computer Aided Drafting	3
Engineering 184, CAD II-Computer Aided Drafting	3
Engineering 186, AutoCAD 3-Dimensional Drawing	3
Engineering 201, Architectural Practice	4
Total	26

Engineering Drafting and Design Certificate: Option II-Architectural/Civil Engineering/ Construction Drafting and Design (Transcripted)

Program code: sac.enrce.ca

This option is designed specifically to prepare the student for employment as a professional drafter/designer in the Architectural, Civil Engineering and Construction fields (AEC). The drafter/designer works closely with the architect, developer and other professionals in the development and construction of AEC projects.

Learning Outcome(s):

Students will acquire knowledge of AEC terms, abbreviations, graphics and standards for application and preparation of AEC drawings and plans.

Major requirements for the certificate:

Course	Units
Engineering 100B, Introduction to Architecture/Civil Engineering/Construction (AEC)	2
Engineering 112, Society and the Built Environment	3
Engineering 142, Architecture/Engineering/Construction Drafting Standards	4
Engineering 154, Architecture/Civil Engineering/Construction (AEC) Parametric and BIM Applications	4
Engineering 183, CAD I-Computer Aided Drafting	3
Engineering 184, CAD II-Computer Aided Drafting	3
Engineering 186, AutoCAD 3-Dimensional Drawing	3
Engineering 201, Architectural Practice	4
Total	26

Engineering Electro-Mechanical Technology Degree

Program code: sac.enemt.as

The associate degree curriculum in Engineering Electro-Mechanical Technology has a strong emphasis on hands-on design, fabrication, and testing; and leads to employment as a mechanical, industrial, or manufacturing engineering technician. Opportunities for employment exist primarily in private manufacturing industries such as industrial, biomedical, or aerospace.

Learning Outcome(s):

Students will develop skills and knowledge necessary to select as well as develop engineering careers, produce engineering drawings that conform to industry standards, create parts and drawings using 3D solid modeling thru intermediate level, construct basic circuits, program a small robot to achieve a desired behavior, and solve trigonometry or calculus-based physics problems.

Major requirements for the associate degree:

(for the associate degree, students must also complete general education coursework Plan A, B, or C, per the college catalog)

Required Courses	Units
Engineering 100A, Introduction to Engineering	2
Engineering 122, Engineering Drawing	3
—OR—	
Engineering 125, Engineering Graphics	3
Engineering 103, Solidworks Basic Solid Modeling	
—OR—	2
Engineering 130A, CATIA Beginning Solid Modeling	
Engineering 132, Introduction to Robotics	3
Engineering 133, Introductory Electomechanical Engineering Technology	
Engineering 134, Intermediate Electomechanical Engineering Technology	3
Engineering 158, Basic Machining Concepts and Operations	3

Select 3 units from the following list:

Engineering 135, Advanced Electomechanical Engineering Technology (3)	3	
Engineering 136, LabVIEW Data Acquisition (3)		
Engineering 137, Engineering Design and Development (3)		
Engineering 240, Dynamics (3)		
Engineering 250, Electric Circuits (3)		
Engineering 250L, Electric Circuits Laboratory (1)		
Engineering 281, Properties of Engineering Materials (3)		
Total		22



Engineering Electro-Mechanical Technology Certificate (Transcribed)

Program code: [sac.enemt.ca](#)

The certificate curriculum in Engineering Electro-Mechanical Technology has a strong emphasis on hands-on design, fabrication, and testing; and leads to employment as a mechanical, industrial, or manufacturing engineering technician. Opportunities for employment exist primarily in private manufacturing industries such as industrial, biomedical, or aerospace.

Learning Outcome(s):

Students will develop skills and knowledge necessary to select as well as develop engineering careers, produce engineering drawings that conform to industry standards, create parts and drawings using 3D solid modeling thru intermediate level, construct basic circuits, program a small robot to achieve a desired behavior, and solve trigonometry or calculus-based physics problems.

Major requirements for the certificate:

Required Courses	Units
Engineering 100A, Introduction to Engineering	2
Engineering 122, Engineering Drawing —OR—	3
Engineering 125, Engineering Graphics	
Engineering 103, Solidworks Basic Solid Modeling —OR—	3
Engineering 130A, CATIA Beginning Solid Modeling	
Engineering 132, Introduction to Robotics	2
Engineering 133, Introductory Electomechanical Engineering Technology	3
Engineering 134, Intermediate Electomechanical Engineering Technology	3
Engineering 158, Basic Machining Concepts and Operations	3
Select 3 units from the following list:	3
Engineering 135, Advanced Electomechanical Engineering Technology (3)	
Engineering 136, LabVIEW Data Acquisition (3)	
Engineering 137, Engineering Design and Development (3)	
Engineering 240, Dynamics (3)	
Engineering 250, Electric Circuits (3)	
Engineering 250L, Electric Circuits Laboratory (1)	
Engineering 281, Properties of Engineering Materials (3)	
Total	22

Energy Analysis Degree

Program code: [sac.enea.as](#)

This degree program trains students for work in energy analysis and auditing. Students completing training will be prepared for work performing Title 24 energy calculations or for work in utility companies or private companies that do energy analysis and auditing.

Learning Outcome(s):

Students will perform Title 24 energy calculations or work in utility companies or private companies that conduct energy analysis and auditing.

Take each of the following courses:

Course	Units
Engineering 012, AEC Blueprint Reading	3
Engineering 100B, Introduction to Architecture/Civil Engineering/Construction (AEC)	2
Engineering 183, CAD I-Computer Aided Drafting	3
Engineering 184, CAD II-Computer Aided Drafting	3
Engineering 165, Introduction to Energy	3
Engineering 175, Introduction to Energy Analysis	3
Total	17

Energy Analysis Certificate (Untranscribed)

Program code: [sac.enea.cert](#)

This certificate program trains students for work in energy analysis and auditing. Students completing training will be prepared for work performing Title 24 energy calculations or for work in utility companies, or private companies that do energy analysis and auditing.

Learning Outcome(s):

Students will perform Title 24 energy calculations or work in utility companies or private companies that conduct energy analysis and auditing.

Major requirements for the associate degree and certificate:

Course	Units
Engineering 012, AEC Blueprint Reading	3
Engineering 100B, Introduction to Architecture/Civil Engineering/Construction (AEC)	2
Engineering 183, CAD I-Computer Aided Drafting	3
Engineering 184, CAD II-Computer Aided Drafting	3
Engineering 165, Introduction to Energy	3
Engineering 175, Introduction to Energy Analysis	3
Total	17

AutoCAD 2D Basics Certificate of Proficiency (Untranscribed)

Program code: [sac.cad2d.cert](#)

2D Computer Drafting Basics is a program for learning to create and edit technical drawings, as well as annotate designs. 2D drawings are used in a wide variety of industries and applications for industrial design of products, architectural, civil and construction drafting to develop plans, shop drawings, permit and patent drawings.

Learning Outcome(s):

Students will complete a set of basic 2D drawings that demonstrate their knowledge and skills with AutoCAD.

Major requirements for the associate degree:

Core Courses	Units
Engineering 100A, Introduction to Engineering —OR—	2
Engineering 100B, Introduction to Architecture/ Civil Engineering/Construction (AEC)	
Engineering 183, AutoCAD I-Computer Aided Drafting	3
Engineering 184, AutoCAD II-Computer Aided Drafting	3
Total	8

3D CAD Skill Builder Certificate of Proficiency (Untranscribed)

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.

Learning Outcome(s):

Students will complete a set of 3D drawings that demonstrate their knowledge and skills with Solidworks, Revit and AutoCAD.

**Major requirements for the certificate:**

Course	Units
Engineering 103, Solidworks Basic Solid Modeling	3
Engineering 154, Architecture/Civil Engineering/Construction (AEC) Parametric and BIM Applications	3
Engineering 186, AutoCAD 3-Dimensional Drawing	3
Total	9

Civil 3D CAD Certificate of Proficiency (Untranscribed)

Program code: sac.c3cad.cert

This certificate includes 3D land development/site design software, environmental design, transportation design, and geospatial information. Students will be exposed to engineering design principles using various information modeling techniques and sustainable design methodologies.

Learning Outcome(s):

Students will complete a set of Civil 3D drawings that demonstrate their knowledge and skills for Civil 3D work using Bentley and AutoDesk software.

Major requirements for the certificate:

Course	Units
Engineering 100B, Introduction to Architecture/Civil Engineering/Construction (AEC)	2
Engineering 143, Fundamentals of Construction	3
Engineering 187, Advanced 3-D CAD	3
Engineering 193, MicroStation 3-D	3
Business Applications 150, Introduction to Geographic Information Systems	0-3
Total	11-14

Engineering Mechanical 3D Solid Modeling CAD Certificate (Untranscribed)

Program code: sac.engr3d.cert

Curriculum focuses on developing competency in parametric solid modeling CAD software that is used heavily in the mechanical, aerospace, industrial, and biomedical engineering fields. Skillsets learned are applicable to drafters, designers, engineering technicians, and engineers in these fields.

Learning Outcome(s):

Students will produce engineering drawings that conform to industry standards and be able to create parts as well as drawings using 3D solid modeling thru intermediate level.

Major requirements for the certificate:

Course	Units
Engineering 103, Solidworks Basic Solid Modeling	3
Engineering 104, Solidworks Intermediate Solid Modeling	3
Engineering 122, Engineering Drawing	3
—OR—	
Engineering 125, Engineering Graphics	3
Engineering 130A, CATIA Beginning Solid Modeling	3
Engineering 130B, CATIA Intermediate Solid Modeling	3
Total	15

Sustainable Building Operations Management Degree

Program code: sac.sbom.as

The Associate of Science degree in High Performance Building Operation Management is focused towards career technical education training of students in sustainable methods for improving the operational performance of offices, schools, hospitals, and other residential and commercial buildings while working as Building Commissioning Professionals, Operations Professionals, Facility Managers and supporting positions. It will provide needed skilled and qualified workers, particularly as building technologies become more advanced.

Major requirements for the associate in science degree:

Course	Units
Engineering 100B, Introduction to Architecture/Civil Engineering/Construction (AEC)	2
Engineering 142, Architecture/Civil Engineering/Construction (AEC) Drafting Standards	4
Engineering 143, Fundamentals of Construction	3
Engineering 201, Architectural Practice	4
Engineering 202, Cost Accounting for Construction Engineering (3)	
—OR—	
Accounting 202, Cost Accounting for Construction Engineering (3)	3-4
—OR—	
Accounting 101, Financial Accounting (4)	
Engineering 203, Sustainable Construction and Facilities Management	3
Engineering 235, Statics	3
Total	22-23

and General Education requirements.

Sustainable Building Operations Management Certificate (Transcribed)

Program code: sac.sbom.ca

The certificate in High Performance Building Operation Management is focused towards career technical education training of students in sustainable methods for improving the operational performance of offices, schools, hospitals, and other residential and commercial buildings while working in Building Commissioning, Operations, Facility Manager and supporting positions. It will provide needed skilled and qualified workers, particularly as building technologies become more advanced.

Requirements for the certificate:

Course	Units
Engineering 142, Architecture/Civil Engineering/Construction (AEC) Drafting Standards	4
Engineering 143, Fundamentals of Construction	3
Engineering 201, Architectural Practice	4
Engineering 202, Cost Accounting for Construction Engineering (3)	
—OR—	
Accounting 202, Cost Accounting for Construction Engineering (3)	3
Engineering 203, Sustainable Construction and Facilities Management	3
Engineering 100B, Introduction to Architecture/Civil Engineering/Construction (AEC)	2
Engineering 112, Society and the Built Environment	3
Total	22



Sustainable Facilities Management Certificate (Untranscripted)

Program code: **sac.sufac.cert**

The certificate in Sustainable Facilities Management is focused towards training the student in sustainable methods for improving the operational performance of offices, schools, hospitals, and other residential and commercial buildings. It will provide needed skilled and qualified workers, particularly as building technologies become more advanced.

Note: Students must complete the program within 5 years or repeat any AEC courses which were completed more than 5 years prior to graduation. AEC courses subject to this requirement are marked with an asterisk (*).

Learning Outcome(s):

Students will use ecological terms, abbreviations, AEC graphics, codes, permits, construction accounting, and facility project procedures to allow work or continued study in sustainable facilities management.

Requirements for the certificate:

Course	Units
Engineering 142,* Architecture/Civil Engineering/Construction (AEC) Drafting Standards	4
Engineering 143, Fundamentals of Construction	3
Engineering 201,* Architectural Practice	4
Engineering 202, Cost Accounting for Construction Engineering (3) —OR—	3
Accounting 202, Cost Accounting for Construction Engineering (3)	
Engineering 203, Sustainable Construction and Facilities Management	3
Total	17

Sustainable Facility Skill Builder Certificate (Untranscripted)

Program code: **sac.sufsb.cert**

This program of study introduces students to Renewables, Green HVAC and Building Automation Systems and Controls, which are fundamental building blocks of energy saving sustainable construction projects. It provides preparation for further study or for work or advancing career opportunities.

Career opportunities include employment in “green” building, design and construction, energy management, and sustainable public planning and policy development. Work is available in government agencies, consulting firms, construction, and non-profit organizations.

Learning Outcome(s):

Students of the Sustainable Facilities Skill Builder will gain skills and knowledge for renewable energy technologies, green HVAC systems, as well as building automation systems and controls.

Requirements for the certificate:

Course	Units
Engineering 100B, Introduction to Architecture/Civil Engineering/Construction (AEC)	2
Engineering 177, Green HVAC	3
Engineering 195, Renewable Energy	3
Engineering 204, Building Automation & Controls	3
Total	11

Surveying Skill Builder Certificate (Untranscripted)

Program code: **sac.ssb.cert**

This program of study includes basics for students or industry professionals who wish to learn surveying basics in a certificate program either to continue studies towards a more comprehensive Civil Technology certificate, or A.S. degree or transfer into a B.S. program.

Learning Outcome(s):

Students will complete a set of surveying drawings that demonstrate their knowledge and skills using industry methods, tools and software.

Major requirements for the certificate:

Course	Units
Engineering 100B, Introduction to Architecture/ Civil Engineering/Construction (AEC)	2
Engineering 118, Plane Surveying	4
Engineering 183, CAD I-Computer Aided Drafting —OR—	3
Engineering 191, Civil CAD Concepts	
Total	9

ENGLISH

Option 1 English Degree

Program code: **sac.engl.aa**

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 degree program prepares students to pursue a major in English leading to a baccalaureate degree.

Learning Outcome(s):

1. Students will demonstrate the ability to read and analyze a text, not limited to written fiction.
2. Students will produce a college-level essay addressing the concerns of a given assignment.
3. Students will use appropriately chosen research material that is documented and cited correctly in MLA format.

Major requirements for the associate in arts degree:

Course	Units
English 102, Literature and Composition (4) —OR—	4
English 102H, Honors Literature and Composition (4)	
English 231, Survey of English Literature I (3) —OR—	
English 232, Survey of English Literature II (3) —OR—	
English 241, Survey of American Literature 1600-1865 (3) —OR—	6
English 242, Survey of American Literature, 1865-Present (3) —OR—	
English 271, Survey of World Literature I (3) —OR—	
English 272, Survey of World Literature II (3) —AND—	
Electives from list below	12
Total	22

12 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 English departments at those institutions and/or www.assist.org regarding specific lower division requirements and unit limits.



Option 2

Associate in Arts in English for Transfer Program code: sac.engl.aat

Revisions to this degree are pending approval from the California Community College Chancellor's office. Please consult a counselor for the latest information.

The Associate in Arts in English for Transfer (A.A.-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 A.A.-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 28 for a list of additional requirements for all Associate in Arts for Transfer (A.A.-T) and Associate in Science for Transfer (A.S.-T) degrees. Upon completion of the A.A.-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):

1. Students will demonstrate the ability to read and analyze a text, not limited to written fiction.
2. Students will produce a college-level essay addressing the concerns of a given assignment.
3. Students will use appropriately chosen research material that is documented and cited correctly in MLA format.

Core Courses (4-8 units)

Units

Option 1: Select two (8 units)

English 103, Critical Thinking and Writing (4)	8
—OR—	
English 103H, Honors Critical Thinking and Writing (4)	
English 102, Literature and Composition (4)	
—OR—	
English 102H, Honors Literature and Composition (4)	

Or

Option 2: Select one (4 units)

English 102, Literature and Composition (4)	4
—OR—	
English 102H, Honors Literature and Composition (4)	

List A: Select two (6 units)

English 241, Survey of American Literature 1600-1865 (3)	6
English 242, Survey of American Literature, 1865-Present (3)	
English 231, Survey of English Literature I (3)	
English 232, Survey of English Literature II (3)	
English 271, Survey of World Literature I (3)	
English 272, Survey of World Literature II (3)	

List B: Select courses based on option chosen in Core Courses:

Option 1: 3 units

Option 2: 6 units

Any courses from List A not already used.

English 213, Creative Writing (3)
English 220, Survey of the Bible as Literature (3)
English 233A, Shakespeare's Comedies and Romances (3)
English 233B, Shakespeare's Tragedies and History Plays (3)
English 233C, Shakespeare's Theatre (3)
English 243, The Modern American Novel (3)
English 245, The Image of African Americans in Literature and Films (3)
English 246, Survey of Chicano Literature (3)
English 270, Children's Literature (3)
English 278, Survey of Literature by Women (3)

List C: Select one (3-5 units)

Any course from List A or B not already used.

American Sign Language 110, American Sign Language I (3)	
American Sign Language 111, American Sign Language II (3)	
American Sign Language 210, American Sign Language III (3)	
English 206, Introduction to Language Structure and Use (3)	
Chinese 101, Elementary Chinese I (5)	
Chinese 102, Elementary Chinese II (5)	
French 101, Elementary French I (5)	
French 102, Elementary French II (5)	
French 201, Intermediate French I (5)	
—OR—	
French 201H, Honors Intermediate French I (5)	
French 202, Intermediate French II (5)	
—OR—	
French 202H, Honors Intermediate French II (5)	
Italian 120, elementary Italian I (5)	
Italian 121, elementary Italian II (5)	
Spanish 101, Elementary Spanish I (5)	
—OR—	
Spanish 101H, Honors Elementary Spanish I (5)	
Spanish 102, Elementary Spanish II (5)	
—OR—	
Spanish 102H, Honors Elementary Spanish II (5)	
Spanish 201, Intermediate Spanish I (5)	
—OR—	
Spanish 201H, Honors Intermediate Spanish I (5)	
Spanish 202, Intermediate Spanish II (5)	
—OR—	
Spanish 202H, Honors Intermediate Spanish II (5)	
Vietnamese 101, Elementary Vietnamese I (5)	
Vietnamese 102, Elementary Vietnamese II (5)	
Communications & Media Studies 121, Introduction to Reporting and Newswriting (3)	
—OR—	
Communications & Media Studies 110, Introduction to Creative Nonfiction (4)	
Business 222, Business Writing (3)	
Communication Studies 152, Oral Interpretation (3)	
Theatre Arts 100, Introduction to Theatre (3)	
Total	19-22

ENTREPRENEURSHIP

Entrepreneurship and Innovation Degree Program code: sac.entei.aa

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):

Students will acquire the necessary knowledge to start their own businesses either as entrepreneurs or freelance independent contractors.

**Core Requirements:**

Course	Units
Entrepreneurship 100, Introduction to Innovation and Entrepreneurship	3
Entrepreneurship 101, Entrepreneurs and Success	1
Entrepreneurship 102, Entrepreneurial Ideas and Creativity	1
Entrepreneurship 103, Innovations and Opportunities	2
Entrepreneurship 104, Business Models	2
Entrepreneurship 105, Social Media, Bootstrapping, and Market Validation	2
Entrepreneurship 106, Building an Entrepreneurial Team	2
Entrepreneurship 107, Money, Finance and Accounting for Entrepreneurs	2
Entrepreneurship 108, Business Plans for Entrepreneurs	2
Entrepreneurship 109, Powerful Presentations	2
Choose 1 elective from the following list:	3
Entrepreneurship 110, Capstone Business Simulations (3)	
Entrepreneurship 111, Capstone Entrepreneurial Case Studies (3)	
Business 170, Principles of Small Business Management (3)	
Total	22

Entrepreneurship and Innovation Certificate (Transcripted)

Program code: [sac.entei.ca](#)

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):

Students will acquire the necessary knowledge to start their own businesses either as entrepreneurs or freelance independent contractors.

Core Course Requirements:

Course	Units
Entrepreneurship 100, Introduction to Innovation and Entrepreneurship	3
Entrepreneurship 101, Entrepreneurs and Success	1
Entrepreneurship 102, Entrepreneurial Ideas and Creativity	1
Entrepreneurship 103, Innovations and Opportunities	2
Entrepreneurship 104, Business Models	2
Entrepreneurship 105, Social Media, Bootstrapping, and Market Validation	2
Entrepreneurship 106, Building an Entrepreneurial Team	2
Entrepreneurship 107, Money, Finance and Accounting for Entrepreneurs	2
Entrepreneurship 108, Business Plans for Entrepreneurs	2
Entrepreneurship 109, Powerful Presentations	2
Choose 1 elective from the following list:	3
Entrepreneurship 110, Capstone Business Simulations (3)	
Entrepreneurship 111, Capstone Entrepreneurial Case Studies (3)	
Business 170, Principles of Small Business Management (3)	
Total	22

Freelancer Certificate (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 to 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):

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.

Major requirements for the certificate:

Course	Units
Entrepreneurship 120, Introduction to Working as a Freelance Independent Contractor	1
Entrepreneurship 121, People Skills for the Freelancer	1
Entrepreneurship 122, Opportunities in Freelance Industries and Trades	1
Entrepreneurship 123, Marketing to Attract Customers and Grow Your Freelance Business	1
Entrepreneurship 124, Survival Finance and Accounting for the Freelancer-Show Me the Money	1
Entrepreneurship 125, Launch Your Freelance Business	1
Total	6

ETHNIC STUDIES

Ethnic Studies Degree

Program code: [sac.ethn.aa](#)

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):

1. Students will meet requirements in preparation for transfer to a four-year institution.
2. Students will interact positively with others in a multicultural society, both professionally personally.
3. Students will help to promote an understanding of our nation's multi-cultural history and promotes student leaders in our community.



Major requirements for the associate in arts degree:

Course	Units
Anthropology 100, Introduction to Cultural Anthropology	3
—OR—	
Anthropology 100H, Honors Introduction to Cultural Anthropology	
Asian American Studies 101, Introduction to Asian American Studies	3
Black Studies 101, Introduction to Black Studies	3
Chicano Studies 101, Introduction to Chicano Studies	3
Ethnic Studies 101, Introduction to Ethnic Studies	
—OR—	
Ethnic Studies 101H, Honors Introduction to Ethnic Studies	3
Ethnic Studies 102, The Borderlands: Cultural Context and Intercultural Relations	
—OR—	
Ethnic Studies 102H, Honors The Borderlands: Cultural Context and Intercultural Relations	3
Psychology 100, Introduction to Psychology	
—OR—	
Psychology 100H, Honors Introduction to Psychology (some sections of interest to Black, Asian American, and Chicano Studies)	3

A minimum of six (6) units (but, no more than three (3) units from any one discipline) taken from the following list: Anthropology 104 or 104H, 105, 125; Art 103, 104, 106; Dance 105, 112; English 104 or 104H, 245, 246; History 101 or 101H, 102 or 102H, 105, 123, 124 or 124H, 125, 146, 150, 151, 153, 160, 161, 181; Child Development 221; Music 102 or 102H, 103; Sociology 100 or 100H.

FASHION DESIGN MERCHANDISING

Fashion Design Degree Program code: sac.fdc.aa

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.

Learning Outcome(s):

Students will function knowledgeably and effectively in positions within the design and apparel manufacturing field.

Major requirements for the associate in arts in Fashion Design are:

Course	Units
Fashion Design Merchandising 080, Embroidery	1.5
Fashion Design Merchandising 081, Fabric Printing	1.5
Fashion Design Merchandising 100, Introduction to Fashion	3
Fashion Design Merchandising 103, Fashion Selection	3
Fashion Design Merchandising 104, Textile Fibers and Fabrics	3
Fashion Design Merchandising 105A, Beginning Sewing	3
Fashion Design Merchandising 109, Flat Pattern Techniques	3.5
Fashion Design Merchandising 111A, Fashion Illustration Techniques	3
Fashion Design Merchandising 113, Fashion Draping	3.5
Fashion Design Merchandising 213, Apparel Line Production	3
Fashion Design Merchandising 214, Tech-Packs for Manufactured Apparel	3
Fashion Design Merchandising 215, Computer Fashion Illustration	3
Fashion Design Merchandising 299, Cooperative Work Experience Education	1-6

Select six (6) units from the following elective courses: 6

Fashion Design Merchandising 052, Knit and Swim Suit Sewing (3)	
Fashion Design Merchandising 055, Children's Clothing (2)	
Fashion Design Merchandising 056, Basic Sewing and Alternations (1)	
Fashion Design Merchandising 058, Decorative Apparel (0.5)	
Fashion Design Merchandising 101, Buying and Merchandising (3)	
Fashion Design Merchandising 102, Promotion and Coordination (3)	
Fashion Design Merchandising 105B, Intermediate Sewing (2)	
Fashion Design Merchandising 106, Advanced Sewing (3)	
Fashion Design Merchandising 107, Custom Tailoring (2)	
Fashion Design Merchandising 110, Corset Construction (3)	
Fashion Design Merchandising 125, Display Merchandising (3)	
Fashion Design Merchandising 140, Fashion E-Commerce (3)	
Fashion Design Merchandising 216, Computer Flat Pattern Design, Grading and Marking (3)	
Entrepreneurship 120, Introduction to Working as a Freelance Independent Contractor (1)	
Entrepreneurship 121, People Skills for the Freelancer (1)	
Entrepreneurship 122, Opportunities in Freelance Industries and Trades (1)	
Entrepreneurship 123, Marketing to Attract Customers and Grow Your Freelance Business (1)	
Entrepreneurship 124, Survival Finance and Accounting for the Freelancer-Show Me the Money (1)	
Entrepreneurship 125, Launch Your Freelance Business (1)	
Total	41-46

Fashion Design Certificate (Transcripted) Program code: sac.fdc.ca

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):

Students will function knowledgeably and effectively in positions within the design and apparel manufacturing field.

Requirements for the certificate:

Course	Units
Fashion Design Merchandising 080, Embroidery	1.5
Fashion Design Merchandising 081, Fabric Printing	1.5
Fashion Design Merchandising 100, Introduction to Fashion	3
Fashion Design Merchandising 103, Fashion Selection	3
Fashion Design Merchandising 104, Textile Fibers and Fabrics	3
Fashion Design Merchandising 105A, Beginning Sewing	3
Fashion Design Merchandising 109, Flat Pattern Techniques	3.5
Fashion Design Merchandising 111A, Fashion Illustration Techniques	3
Fashion Design Merchandising 113, Fashion Draping	3.5
Fashion Design Merchandising 213, Apparel Line Production	3
Fashion Design Merchandising 214, Tech-Packs for Manufactured Apparel	3
Fashion Design Merchandising 215, Computer Fashion Illustration	3
Fashion Design Merchandising 299, Cooperative Work Experience Education	1-6



Select six (6) units from the following elective courses:

Fashion Design Merchandising 052, Knit and Swim Suit Sewing (3)	6
Fashion Design Merchandising 055, Children's Clothing (2)	
Fashion Design Merchandising 056, Basic Sewing and Alternations (1)	
Fashion Design Merchandising 058, Decorative Apparel (0.5)	
Fashion Design Merchandising 101, Buying and Merchandising (3)	
Fashion Design Merchandising 102, Promotion and Coordination (3)	
Fashion Design Merchandising 105B, Intermediate Sewing (2)	
Fashion Design Merchandising 106, Advanced Sewing (3)	
Fashion Design Merchandising 107, Custom Tailoring (2)	
Fashion Design Merchandising 110, Corset Construction (3)	
Fashion Design Merchandising 125, Display Merchandising (3)	
Fashion Design Merchandising 140, Fashion E-Commerce (3)	
Fashion Design Merchandising 216, Computer Flat Pattern Design, Grading and Marking (3)	
Entrepreneurship 120, Introduction to Working as a Freelance Independent Contractor (1)	
Entrepreneurship 121, People Skills for the Freelancer (1)	
Entrepreneurship 122, Opportunities in Freelance Industries and Trades (1)	
Entrepreneurship 123, Marketing to Attract Customers and Grow Your Freelance Business (1)	
Entrepreneurship 124, Survival Finance and Accounting for the Freelancer-Show Me the Money (1)	
Entrepreneurship 125, Launch Your Freelance Business (1)	
Total	41-46

Fashion Merchandising Degree
Program code: sac.fdm.aa

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.

Learning Outcome(s):

Students will function knowledgeably and effectively in positions within the design and apparel manufacturing field.

Major requirements for the associate in arts in Merchandising are:

Course	Units
Fashion Design Merchandising 100, Introduction to Fashion	3
Fashion Design Merchandising 101, Buying and Merchandising	3
Fashion Design Merchandising 102, Promotion and Coordination	3
Fashion Design Merchandising 103, Fashion Selection	3
Fashion Design Merchandising 104, Textile Fibers and Fabrics	3
Fashion Design Merchandising 105A, Beginning Sewing	3
Fashion Design Merchandising 111A, Fashion Illustration Techniques	3
Fashion Design Merchandising 125, Display Merchandising	3
Fashion Design Merchandising 140, Fashion E-Commerce	3
Fashion Design Merchandising 214, Tech-Packs for Manufactured Apparel	3
Fashion Design Merchandising 299, Cooperative Work Experience Education	1-6
Business Applications 188, Microsoft Excel	1.5

Select six (6) units from the following electives: 6

Fashion Design Merchandising 108, RTW Quality Analysis (3)	
Fashion Design Merchandising 109, Flat Pattern Techniques (3.5)	
Fashion Design Merchandising 113, Fashion Draping (3.5)	
Entrepreneurship 120, Introduction to Working as a Freelance Independent Contractor (1)	
Entrepreneurship 121, People Skills for the Freelancer (1)	
Entrepreneurship 122, Opportunities in Freelance Industries and Trades (1)	
Entrepreneurship 123, Marketing to Attract Customers and Grow Your Freelance Business (1)	
Entrepreneurship 124, Survival Finance and Accounting for the Freelancer-Show Me the Money (1)	
Entrepreneurship 125, Launch Your Freelance Business (1)	
Business Applications 189, Excel Application Projects (1.5)	
Total	38.5-42.5

Fashion Merchandising Certificate (Transcripted)
Program code: sac.fdm.ca

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):

Students will function knowledgeably and effectively in positions within the design and apparel manufacturing field.

Requirements for the certificate are:

Course	Units
Fashion Design Merchandising 100, Introduction to Fashion	3
Fashion Design Merchandising 101, Buying and Merchandising	3
Fashion Design Merchandising 102, Promotion and Coordination	3
Fashion Design Merchandising 103, Fashion Selection	3
Fashion Design Merchandising 104, Textile Fibers and Fabrics	3
Fashion Design Merchandising 105A, Beginning Sewing	3
Fashion Design Merchandising 111A, Fashion Illustration Techniques	3
Fashion Design Merchandising 125, Display Merchandising	3
Fashion Design Merchandising 140, Fashion E-Commerce	3
Fashion Design Merchandising 214, Tech-Packs for Manufactured Apparel	3
Fashion Design Merchandising 299, Cooperative Work Experience Education	1-6
Business Applications 188, Microsoft Excel	1.5

Select six (6) units from the following electives: 6

Fashion Design Merchandising 108, RTW Quality Analysis (3)	
Fashion Design Merchandising 109, Flat Pattern Techniques (3.5)	
Fashion Design Merchandising 113, Fashion Draping (3.5)	
Entrepreneurship 120, Introduction to Working as a Freelance Independent Contractor (1)	
Entrepreneurship 121, People Skills for the Freelancer (1)	
Entrepreneurship 122, Opportunities in Freelance Industries and Trades (1)	
Entrepreneurship 123, Marketing to Attract Customers and Grow Your Freelance Business (1)	
Entrepreneurship 124, Survival Finance and Accounting for the Freelancer-Show Me the Money (1)	
Entrepreneurship 125, Launch Your Freelance Business (1)	
Business Applications 189, Excel Application Projects (1.5)	
Total	38.5-42.5



Apparel Product Development and Technical Design Degree

Program code: sac.fdcap.aa

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.

Learning Outcome(s):

Students will function knowledgeably and effectively in positions within the design and apparel manufacturing field.

Major requirements for the associate in arts in Product Development and Technical Design are:

Course	Units
Fashion Design Merchandising 100, Introduction to Fashion	3
Fashion Design Merchandising 103, Fashion Selection	3
Fashion Design Merchandising 104, Textile Fibers and Fabrics	3
Fashion Design Merchandising 105A, Beginning Sewing	3
Fashion Design Merchandising 109, Flat Pattern Techniques	3.5
Fashion Design Merchandising 111A, Fashion Illustration Techniques	3
Fashion Design Merchandising 113, Fashion Draping	3.5
Fashion Design Merchandising 214, Tech-Packs for Manufactured Apparel	3
Fashion Design Merchandising 215, Computer Fashion Illustration	3
Fashion Design Merchandising 216, Computer Flat Pattern Design, Grading and Marking	3
Fashion Design Merchandising 299, Cooperative Work Experience Education	1-6

Select six (6) units from the following elective courses: 6

Fashion Design Merchandising 052, Knit and Swim Suit Sewing (3)	
Fashion Design Merchandising 055, Children's Clothing (2)	
Fashion Design Merchandising 056, Basic Sewing and Alternations (1)	
Fashion Design Merchandising 058, Decorative Apparel (0.5)	
Fashion Design Merchandising 080, Embroidery (1.5)	
Fashion Design Merchandising 081, Fabric Printing (1.5)	
Fashion Design Merchandising 101, Buying and Merchandising (3)	
Fashion Design Merchandising 102, Promotion and Coordination (3)	
Fashion Design Merchandising 105B, Intermediate Sewing (2)	
Fashion Design Merchandising 106, Advanced Sewing (3)	
Fashion Design Merchandising 107, Custom Tailoring (2)	
Fashion Design Merchandising 125, Display Merchandising (3)	
Fashion Design Merchandising 213, Apparel Line Production (3)	
Entrepreneurship 120, Introduction to Working as a Freelance Independent Contractor (1)	
Entrepreneurship 121, People Skills for the Freelancer (1)	
Entrepreneurship 122, Opportunities in Freelance Industries and Trades (1)	
Entrepreneurship 123, Marketing to Attract Customers and Grow Your Freelance Business (1)	
Entrepreneurship 124, Survival Finance and Accounting for the Freelancer-Show Me the Money (1)	
Entrepreneurship 125, Launch Your Freelance Business (1)	

Total 38-43

Apparel Product Development and Technical Design Certificate (Transcripted)

Program code: sac.fdcap.ca

This certificate 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.

Learning Outcome(s):

Students will function knowledgeably and effectively in positions within the design and apparel manufacturing field.

Requirements for the certificate are:

Course	Units
Fashion Design Merchandising 100, Introduction to Fashion	3
Fashion Design Merchandising 103, Fashion Selection	3
Fashion Design Merchandising 104, Textile Fibers and Fabrics	3
Fashion Design Merchandising 105A, Beginning Sewing	3
Fashion Design Merchandising 109, Flat Pattern Techniques	3.5
Fashion Design Merchandising 111A, Fashion Illustration Techniques	3
Fashion Design Merchandising 113, Fashion Draping	3.5
Fashion Design Merchandising 214, Tech-Packs for Manufactured Apparel	3
Fashion Design Merchandising 215, Computer Fashion Illustration	3
Fashion Design Merchandising 216, Computer Flat Pattern Design, Grading and Marking	3
Fashion Design Merchandising 299, Cooperative Work Experience Education	1-6

Select six (6) units from the following elective courses: 6

Fashion Design Merchandising 052, Knit and Swim Suit Sewing (3)	
Fashion Design Merchandising 055, Children's Clothing (2)	
Fashion Design Merchandising 056, Basic Sewing and Alternations (1)	
Fashion Design Merchandising 058, Decorative Apparel (0.5)	
Fashion Design Merchandising 080, Embroidery (1.5)	
Fashion Design Merchandising 081, Fabric Printing (1.5)	
Fashion Design Merchandising 101, Buying and Merchandising (3)	
Fashion Design Merchandising 102, Promotion and Coordination (3)	
Fashion Design Merchandising 105B, Intermediate Sewing (2)	
Fashion Design Merchandising 106B, Advanced Sewing II (1.5)	
Fashion Design Merchandising 107, Custom Tailoring (2)	
Fashion Design Merchandising 125, Display Merchandising (3)	
Fashion Design Merchandising 213, Apparel Line Production (3)	
Entrepreneurship 120, Introduction to Working as a Freelance Independent Contractor (1)	
Entrepreneurship 121, People Skills for the Freelancer (1)	
Entrepreneurship 122, Opportunities in Freelance Industries and Trades (1)	
Entrepreneurship 123, Marketing to Attract Customers and Grow Your Freelance Business (1)	
Entrepreneurship 124, Survival Finance and Accounting for the Freelancer-Show Me the Money (1)	
Entrepreneurship 125, Launch Your Freelance Business (1)	

Total 38-43



Costume Design Certificate (Untranscribed)
Program code: sac.fdc.d.cert

This certificate curriculum is designed to prepare students for entry level costume careers within the entertainment industry which includes television/film, theme parks, theatres, and varied performance venues across the country and world. Emphasis is placed on developing fundamental costume design skill sets while gaining an understanding of the processes and procedures utilized in the entertainment industry for costuming actors/performers. Possible entry level job titles are: Costume Design Assistant, Wardrobe Manager, Costume Manager, Dresser, Cutter/Draper, Production Designer, and Costume Shop Assistant, all of which can lead to more advanced careers within these industries.

Learning Outcome(s):

1. Students will demonstrate an understanding of the relationship between costumes, the script, and the actor.
2. Students will develop an understanding of the responsibilities and the art of the costume designer as it relates to characterization for a specific script.
3. Students will develop the fundamental skills to visualize, pattern, construct, and fit performers with custom costumes.

Complete the following 17.0 units:	Units
Fashion Design Merchandising 105A, Beginning Sewing	3
Fashion Design Merchandising 111A, Fashion Illustration Techniques	3
Fashion Design Merchandising 113, Fashion Draping	3
Fashion Design Merchandising 136, Fundamentals of Costume Design (3)	3
—OR—	
Theatre Arts 136, Fundamentals of Costume Design (3)	3
Theatre Arts 132, Stage Makeup	2
Theatre Arts 150B, Technical Theatre in Production	2
Total	17

Dressmaking and Alterations Option Certificate (Transcribed)
Program code: sac.fdc.d.a.ca

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.

Learning Outcome(s):

Students will function knowledgeable and effectively in positions within the design and apparel manufacturing field.

Certificate option in Dressmaking and Alterations can be earned through the completion of the following required courses:

Course	Units
Fashion Design Merchandising 052, Knit and Swim Suit Sewing (3)	3
—OR—	
Fashion Design Merchandising 055, Children's Clothing (2)	2-3
Fashion Design Merchandising 056, Basic Sewing and Alterations	1
Fashion Design Merchandising 104, Textile Fibers and Fabrics	3
Fashion Design Merchandising 105A, Beginning Sewing	3
Fashion Design Merchandising 105B, Intermediate Sewing	2
Fashion Design Merchandising 106, Advanced Sewing	3
Fashion Design Merchandising 107, Custom Tailoring	2
Fashion Design Merchandising 109, Flat Pattern Techniques	3.5
Fashion Design Merchandising 110, Corset Construction	3
Fashion Design Merchandising 112, Advanced Flat Pattern Making	3
Fashion Design Merchandising 113, Fashion Draping	3.5
Fashion Design Merchandising 212, Advanced Draping	2
Fashion Design Merchandising 213, Apparel Line Production	3

Select 3 or more units from the following:	3
Fashion Design Merchandising 005, Fashion Laboratory (0.5-1)	
Fashion Design Merchandising 058, Decorative Apparel (0.5)	
Fashion Design Merchandising 080, Embroidery (1.5)	
Fashion Design Merchandising 081, Fabric Printing (1.5)	
Fashion Design Merchandising 102, Promotion and Coordination (3)	
Fashion Design Merchandising 111A, Fashion Illustration Techniques (3)	
Fashion Design Merchandising 140, Fashion E-Commerce (3)	
Fashion Design Merchandising 216, Computer Flat Pattern Design, Grading and Marking (3)	
Fashion Design Merchandising 299, Cooperative Work Experience Education (1-6)	
Entrepreneurship 120, Introduction to Working as a Freelance Independent Contractor (1)	
Entrepreneurship 121, People Skills for the Freelancer (1)	
Entrepreneurship 122, Opportunities in Freelance Industries and Trades (1)	
Entrepreneurship 123, Marketing to Attract Customers and Grow Your Freelance Business (1)	
Entrepreneurship 124, Survival Finance and Accounting for the Freelancer-Show Me the Money (1)	
Entrepreneurship 125, Launch Your Freelance Business (1)	
Total	37-38

Fashion Assistant Certificate (Untranscribed)
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 available online.

Learning Outcome(s):

Students who complete the Fashion Assistant Certificate will be able to function knowledgeable and effectively in entry level positions in the design and apparel manufacturing field.

Requirements for the certificate are:

Course	Units
Fashion Design Merchandising 100, Introduction to Fashion	3
Fashion Design Merchandising 104, Textile Fibers and Fabrics	3
Fashion Design Merchandising 105A, Beginning Sewing	3
Fashion Design Merchandising 111A, Fashion Illustration Techniques	3
Fashion Design Merchandising 215, Computer Fashion Illustration	3
Fashion Design Merchandising 299, Cooperative Work Experience Education	1-6
Total	16-21



Quinceañera Dress Design Certificate (Untranscribed)

Program code: **sac.fdqdd.cert**

The certificate curriculum prepares students for entry level careers in designing and constructing Quinceañera dresses.

Learning Outcome(s):

Students who complete the Quinceañera Dress Design Certificate will be able to design and create formal dresses.

Requirements for the certificate are:

Course	Units
Fashion Design Merchandising 058, Decorative Apparel	0.5
Fashion Design Merchandising 105A, Beginning Sewing	3
Fashion Design Merchandising 110, Corset Construction	3
Fashion Design Merchandising 109, Flat Pattern Techniques	3.5
Fashion Design Merchandising 113, Fashion Draping	3.5
Fashion Design Merchandising 213, Apparel Line Production	3
Total	16.5

Screen Printing and Embroidery Certificate (Untranscribed)

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):

Screen Printing and Embroidery Certificate of Proficiency- Students who complete the Screen Printing and Embroidery Certificate will be able to function knowledgeably and effectively in entry level positions in the apparel screen printing and embroidery industry.

Requirements for the certificate are:

Course	Units
Fashion Design Merchandising 080, Embroidery	1.5
Fashion Design Merchandising 081, Fabric Printing	1.5
Fashion Design Merchandising 104, Textile Fibers and Fabrics	3
Fashion Design Merchandising 111A, Fashion Illustration Techniques	3
Fashion Design Merchandising 213, Apparel Line Production	3
Fashion Design Merchandising 215, Computer Fashion Illustration	3
Fashion Design Merchandising 299, Cooperative Work Experience Education	1-6
Total	16-21

Swimwear Design Certificate (Untranscribed)

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):

Will be able to function knowledgeably and effectively in entry level positions in the design and apparel manufacturing field.

Requirements for the certificate are:

Course	Units
Fashion Design Merchandising 052, Knit and Swim Suit Sewing	3
Fashion Design Merchandising 105A, Beginning Sewing	3
Fashion Design Merchandising 111A, Fashion Illustration Techniques	3
Fashion Design Merchandising 214, Tech-Packs for Manufactured Apparel	3
Fashion Design Merchandising 213, Apparel Line Production	3
Fashion Design Merchandising 299, Cooperative Work Experience Education	1
Total	16

Visual Merchandising Certificate (Untranscribed)

Program code: **sac.fdvdm.cert**

This certificate curriculum is designed to prepare students for visual merchandising positions at fashion retail stores.

Learning Outcome(s):

will be able to function knowledgeably and effectively in entry level positions in the retail merchandising field.

Requirements for the certificate are:

Course	Units
Fashion Design Merchandising 100, Introduction to Fashion	3
Fashion Design Merchandising 101, Buying and Merchandising	3
Fashion Design Merchandising 102, Promotion and Coordination	3
Fashion Design Merchandising 125, Display Merchandising	3
Fashion Design Merchandising 140, Fashion E-Commerce	3
Fashion Design Merchandising 299, Cooperative Work Experience Education	1-6
Total	16-21

FIRE TECHNOLOGY

Administrative Fire Services Chief Officer Degree

Program code: **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 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 Fire Technology 121L is completed with a "pass," it may be used to satisfy the requirements for section F of the general education requirements for graduation.

Learning Outcome(s):

1. Students will demonstrate skills and knowledge expected in upper-level management positions within the fire service through the application of leadership, management, and ethical decision-making models.
2. Students will develop mission-specific goals and strategies to support executive leadership in fire department daily operations as well as all-risk emergency situations.
3. Students will analyze intergovernmental and public relationships between city, county, state and federal agencies and how they relate to emergency and non-emergency public safety coordination.



Student must complete the general education requirements as outlined in the appropriate catalog.

and

Major requirements for the associate degree:

Course	Units
Fire Officer Training 146, Fire Management 2A: Organizational Development and Human Relations	0.5
Fire Officer Training 147, Fire Management 2B: Fire Service Financial Management	0.5
Fire Officer Training 148, Fire Management 2C: Personnel and Labor Relations	0.5
Fire Officer Training 149, Fire Management 2D: Strategic Planning	0.5
Fire Officer Training 150, Fire Management 2E: Ethics and the Challenge of Leadership	0.8
Fire Officer Training 151, Fire Command 2A: Command Tactics at Major Fires	0.8
Fire Officer Training 152, Fire Command 2B: Management of Major Hazardous Materials Incidents	0.8
Fire Officer Training 153, Fire Command 2C: High-Rise Fire Fighting Tactics	0.5
Fire Officer Training 154, Fire Command 2D: Planning for Large Scale Disasters	0.8
Fire Officer Training 155, Fire Command 2E: Wildland Fire Fighting Tactics	0.8

In addition, select a minimum of 9 units from the following list 9
(classes in this area may be substituted with similar classes):

Fire Technology 101, Fire Protection Organization (3)	
Fire Technology 102, Fire Behavior and Combustion (3)	
Fire Technology 103, Personal Fire Safety (3)	
Fire Technology 104, Fire Prevention Technology (3)	
Fire Technology 105, Building Construction for Fire Protection (3)	
Fire Technology 106, Fire Protection Equipment and Systems (3)	
Fire Technology 121, Physical Fitness for Public Safety Personnel (3)	
Fire Technology 121L, Physical Fitness for Public Safety Personnel - Performance and Assessment (0.3)	
Fire Academy 060, Basic Fire Academy (12)	
Total	15.5

Administrative Fire Services Chief Officer Certificate (Transcripted)
Program code: sac.ftco.ca

The Administrative Fire Services, Chief Officer Certificate is designed to prepare students for careers as chief officers. This program meets the requirements of the California Fire Chiefs' Association and the Chief Officer Certification track of the California State Fire Marshall.

Learning Outcome(s):

1. Students will demonstrate skills and knowledge expected in upper-level management positions within the fire service through the application of leadership, management, and ethical decision-making models.
2. Students will develop mission-specific goals and strategies to support executive leadership in fire department daily operations as well as all-risk emergency situations.
3. Students will analyze intergovernmental and public relationships between city, county, state and federal agencies and how they relate to emergency and non-emergency public safety coordination.

Major requirements for the certificate:

Course	Units
Fire Officer Training 146, Fire Management 2A: Organizational Development and Human Relations	0.5
Fire Officer Training 147, Fire Management 2B: Fire Service Financial Management	0.5
Fire Officer Training 148, Fire Management 2C: Personnel and Labor Relations	0.5
Fire Officer Training 149, Fire Management 2D: Strategic Planning	0.5
Fire Officer Training 150, Fire Management 2E: Ethics and the Challenge of Leadership	0.8
Fire Officer Training 151, Fire Command 2A: Command Tactics at Major Fires	0.8
Fire Officer Training 152, Fire Command 2B: Management of Major Hazardous Materials Incidents	0.8
Fire Officer Training 153, Fire Command 2C: High-Rise Fire Fighting Tactics	0.5
Fire Officer Training 154, Fire Command 2D: Planning for Large Scale Disasters	0.8
Fire Officer Training 155, Fire Command 2E: Wildland Fire Fighting Tactics	0.8

In addition, select a minimum of 9 units from the following list 9
(classes in this area may be substituted with similar classes):

Fire Technology 101, Fire Protection Organization (3)	
Fire Technology 102, Fire Behavior and Combustion (3)	
Fire Technology 103, Personal Fire Safety (3)	
Fire Technology 104, Fire Prevention Technology (3)	
Fire Technology 105, Building Construction for Fire Protection (3)	
Fire Technology 106, Fire Protection Equipment and Systems (3)	
Fire Technology 121, Physical Fitness for Public Safety Personnel (3)	
Fire Technology 121L, Physical Fitness for Public Safety Personnel - Performance and Assessment (0.3)	
Fire Academy 060, Basic Fire Academy (12)	
Total	15.5

Fire Administration Option Degree
Program code: sac.ftfa.as

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 Fire 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 Fire Technology 121L is completed with a "pass," it may be used to satisfy the requirements of section F of the general education requirements for graduation.

Learning Outcome(s):

1. Students will demonstrate the ability to manage all-risk emergency incidents at the Fire Officer level.
2. Students will competently apply leadership and management theories and decision-making models as they relate to the local, state and federal standards and practices.
3. Students will analyze complex emergency response scenarios and effectively identify strategies and tactics for successful mitigation.



Student must complete the general education requirements as outlined in the appropriate catalog

and

Major requirements for the associate degree:

Course	Units
Fire Academy 062, Basic Incident Command Systems	0.3
Fire Academy 062B, ICS-300 Intermediate ICS	0.5
Fire Officer Training 026, Fire Inspector 1A	1.5
Fire Officer Training 027, Fire Inspector 1B: Introduction to Fire and Life Safety	1.5
Fire Officer Training 036, Training Instructor 1A: Cognitive Lesson Delivery	0.5
Fire Officer Training 037, Training Instructor 1B: Psychomotor Lesson Delivery	0.5
Fire Officer Training 044, Fire Investigation 1A: Fire Origin and Cause Determination	0.5
Fire Officer Training 045, Fire Investigation 1B: Techniques of Fire Investigation	0.5
Fire Officer Training 046, Fire Management 1: Management/Supervision for Company Officers	0.5
Fire Officer Training 047, Fire Command 1A: Command Principles for Company Officers	0.8
Fire Officer Training 048, Fire Command 1B: Incident Management for Company Officers	0.8
Fire Technology 101, Fire Protection Organization	3
In addition, select a minimum of 9 units from the following list (classes in this area may be substituted with similar classes):	9
Fire Technology 102, Fire Behavior and Combustion (3)	
Fire Technology 103, Personal Fire Safety (3)	
Fire Technology 104, Fire Prevention Technology (3)	
Fire Technology 105, Building Construction for Fire Protection (3)	
Fire Technology 106, Fire Protection Equipment and Systems (3)	
Fire Technology 121, Physical Fitness for Public Safety Personnel (3)	
Fire Technology 121L, Physical Fitness for Public Safety Personnel – Performance and Assessment (0.3)	
Fire Academy 060, Basic Fire Academy (12)	
Total	21.4

Fire Administration Option Certificate (Transcripted)

Program code: sac.ftfa.ca

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 Certified Fire 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):

1. Students will demonstrate the ability to manage all-risk emergency incidents at the Fire Officer level.
2. Students will competently apply leadership and management theories and decision-making models as they relate to the local, state and federal standards and practices.
3. Students will analyze complex emergency response scenarios and effectively identify strategies and tactics for successful mitigation.

Course	Units
Fire Academy 062, Basic Incident Command Systems	0.3
Fire Academy 062B, ICS-300 Intermediate ICS	0.5
Fire Officer Training 026, Fire Inspector 1A	1.5
Fire Officer Training 027, Fire Inspector 1B: Introduction to Fire and Life Safety	1.5
Fire Officer Training 036, Training Instructor 1A: Cognitive Lesson Delivery	0.5
Fire Officer Training 037, Training Instructor 1B: Psychomotor Lesson Delivery	0.5
Fire Officer Training 044, Fire Investigation 1A: Fire Origin and Cause Determination	0.5
Fire Officer Training 045, Fire Investigation 1B: Techniques of Fire Investigation	0.5
Fire Officer Training 046, Fire Management 1: Management/Supervision for Company Officers	0.5
Fire Officer Training 047, Fire Command 1A: Command Principles for Company Officers	0.8
Fire Officer Training 048, Fire Command 1B: Incident Management for Company Officers	0.8
In addition, select a minimum of 9 units from the following list: (classes in this area may be substituted with similar classes):	9
Fire Technology 102, Fire Behavior and Combustion (3)	
Fire Technology 103, Personal Fire Safety (3)	
Fire Technology 104, Fire Prevention Technology (3)	
Fire Technology 105, Building Construction for Fire Protection (3)	
Fire Technology 106, Fire Protection Equipment and Systems (3)	
Fire Technology 121, Physical Fitness for Public Safety Personnel (3)	
Fire Technology 121L, Physical Fitness for Public Safety Personnel – Performance and assessment (0.3)	
Fire Academy 060, Basic Fire Academy (12)	
Total	21.8

Fire Prevention Officer Degree Program code: sac.ftpo.as

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 Firefighter I 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):

1. Students will 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. Students will perform skills that meet National Fire Protection Association Standard 1031 for Fire Inspector I, California State Fire Marshal Standards for Fire Inspector I and International Code Council Fire Inspector I
3. Students will analyze, evaluate, and develop mitigation plans for emergency and hazardous conditions that are inherent to Fire Prevention.

**Major requirements for the associate degree:**

Course	Units
Fire Officer Training 026, Fire Inspector 1A	1.5
Fire Officer Training 130B, Fire Inspector 1B: Introduction to Fire and Life Safety	1.5
Fire Officer Training 130C, Fire Inspector 1C: Field Inspection	1.5
Fire Officer Training 130D, Fire Inspector 1D:Field Inspector	1
Fire Technology 101, Fire Protection Organization	3
Fire Technology 102, Fire Behavior and Combustion	3
Fire Technology 104, Fire Prevention Technology	3
Fire Technology 105, Building Construction for Fire Protection	3
Fire Technology 106, Fire Protection Equipment and Systems	3
Fire Officer Training 136, Fire Inspector 2A: Fire Prevention Administration	1
Fire Officer Training 137, Fire Inspector 2B: Fire and Life Safety Requirements	1.5
Fire Officer Training 138, Fire Inspector 2C: Inspecting New and Existing Fire & Life Safety Systems and Equipment	1
Fire Officer Training 139, Fire Inspector 2D: Hazardous Materials, Operations, and Processes	1.5
Total	25.5

Fire Prevention Officer Certificate (Transcripted)
Program code: sac.ftpo.ca

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 Certified Firefighter I and college or university preparation.

Learning Outcome(s):

1. Students will demonstrate written and verbal communication skills required for entry-level Fire Inspector positions.
2. Students will demonstrate requisite knowledge and skills that meet the National Fire Protection Association Standard 1031 for Fire Inspector I.
3. Students will identify and evaluate hazardous conditions that are inherent to Fire Prevention.

Course	Units
Fire Officer Training 026, Fire Inspector 1A	1.5
Fire Officer Training 027, Fire Inspector 1B: Introduction to Fire and Life Safety	1.5
Fire Officer Training 028, Fire Inspector 1C: Field Inspection	1.5
Fire Officer Training 029, Fire Inspector 1D:Field Inspector	1
Fire Technology 101, Fire Protection Organization	3
Fire Technology 102, Fire Behavior and Combustion	3
Fire Technology 104, Fire Prevention Technology	3
Fire Technology 105, Building Construction for Fire Protection	3
Fire Technology 106, Fire Protection Equipment and Systems	3
Total	20.5

Public Fire Service Option Degree
Program code: sac.ftpfs.as

The public fire service program is designed to provide occupational preparation in federal, state, local and private fire protection agencies and for those desiring to enter fire service work in such areas as firefighting with emphasis in fire prevention, inspection and safety practices. Completion of the Fire Academy 060 course is recognized by the California State Board of Fire Services as meeting the requirements for Certified Firefighter 1 Training Academy and college and university preparation. The units earned in Fire Academy 060 are nontransferable. Prerequisites to the Basic Fire Academy include: All Fire Technology core courses, meeting the NFPA 1582 medical standards, passing the physical ability test and completing Emergency Medical Technician I course, taking and passing the National EMT Certification Exam and receiving certification in the State of California.

Student must complete the general education requirements as outlined in the appropriate catalog.

Learning Outcome(s):

1. Students will demonstrate written and verbal communication skills required for entry-level Firefighter positions.
2. Students will demonstrate skills that meet the National Fire Protection Association Standard 1001 for Fire Fighter I; California State Fire Marshal standards for Firefighter I Trained and the recommendations of the Fire Technology Dept. Advisory Board.
3. Students will analyze emergency and hazardous conditions that are inherent to the firefighting profession.

Major requirements for the associate degree:

Course	Units
Fire Academy 007, Orientation and Physical Fitness	2.5
Fire Academy 008, Firefighter I Physical Ability Examination	0.1
Fire Academy 060, Basic Fire Academy	12
Fire Technology 101, Fire Protection Organization	3
Fire Technology 102, Fire Behavior and Combustion	3
Fire Technology 103, Personal Fire Safety	3
Fire Technology 104, Fire Prevention Technology	3
Fire Technology 105, Building Construction for Fire Protection	3
Fire Technology 106, Fire Protection Equipment and Systems	3
Fire Technology 121, Physical Fitness for Public Safety Personnel	3
Fire Technology 121L, Physical Fitness for Public Safety Personnel - Performance and Assessment	0.3
Total	35.9

Public Fire Service Option Certificate (Transcripted)
Program code: sac.ftpfs.ca

The public fire service program is designed to provide occupational preparation in federal, state, local, and private fire protection agencies and for those desiring to enter fire service work in such areas as firefighting with emphasis in fire prevention, inspection, and safety practices. Completion of the Fire Academy 060 course is recognized by the California State Board of Fire Services as meeting the requirements for Certified Firefighter 1 Training Academy and college and university preparation. The units earned in The Fire Academy 060 are nontransferable. Prerequisites to the Basic Fire Academy include All Fire Technology core courses, meeting the NFPA 1582 medical standards, passing the physical ability test and completing Emergency Medical Technician I course, taking and passing the National EMT Certification Exam, and receiving certification in the State of California.

**Learning Outcome(s):**

1. Students will demonstrate written and verbal communication skills required for entry-level Firefighter positions.
2. Students will demonstrate skills that meet the National Fire Protection Standard 1001 for Fire Fighter; California State Fire Marshal standards for Firefighter I Trained and the recommendations of the Fire Technology Dept. Advisory Board.
3. Students will analyze emergency and hazardous conditions that are inherent to the firefighting profession.

Major requirements for the certificate:

Course	Units
Fire Academy 007, Orientation and Physical Fitness	2.5
Fire Academy 008, Firefighter I Physical Ability Examination	0.1
Fire Academy 060, Basic Fire Academy	12
Fire Technology 101, Fire Protection Organization	3
Fire Technology 102, Fire Behavior and Combustion	3
Fire Technology 103, Personal Fire Safety	3
Fire Technology 104, Fire Prevention Technology	3
Fire Technology 105, Building Construction for Fire Protection	3
Fire Technology 106, Fire Protection Equipment and Systems	3
Fire Technology 121, Physical Fitness for Public Safety Personnel	3
Fire Technology 121L, Physical Fitness for Public Safety Personnel - Performance and Assessment	0.3
Total	35.9

Fire Service Core Competencies Certificate (Untranscribed)

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 devices.
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.

Course	Units
Fire Technology 101, Fire Protection Organization	3
Fire Technology 102, Fire Behavior and Combustion	3
Fire Technology 104, Fire Prevention Technology	3
Fire Technology 105, Building Construction for Fire Protection	3
Fire Technology 106, Fire Protection Equipment and Systems	3
Total	15

FOREIGN LANGUAGES

(See Modern Languages)

GEOGRAPHY

Option 1

Geography Degree

Program code: sac.geog.aa

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):

Students will 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 in arts degree:

Course	Units
Geography 100, World Regional Geography —OR—	3
Geography 100H, Honors World Regional Geography	
Geography 101, Physical Geography —OR—	3
Geography 130, Introduction to Weather and Climate	
Geography 102, Cultural Geography —OR—	3
Geography 102H, Honors Cultural Geography —OR—	
Geography 140, California Geography —OR—	3
Geography 155, introduction to Geographic Information Systems	
Geography 101L, Physical Geography Lab	1
Total	10

Plus 9 units from electives below, with a minimum of 3 units from Category "A" and 3 units from Category "B".

Category A

- Anthropology 100, Introduction to Cultural Anthropology (3)
—OR—
- Anthropology 100H, Honors Introduction to Cultural Anthropology (3)
- Anthropology 103, Introduction to Archaeology (3)
- Economics 120, Principles/Macro (3)
- Economics 121, Principles/Micro (3)
- History 101, World Civilizations to the 16th Century (3)
—OR—
- History 101H, Honors World Civilizations to the 16th Century (3)
- History 102, World Civilizations Since the 16th Century (3)
—OR—
- History 102H, Honors World Civilizations Since the 16th Century (3)
- History 105, Ancient Mesoamerican Civilization (3)
- History 133, History of California (3)
- History 150, Latin American Civilization to Independence (3)
- History 151, Modern Latin American Civilization (3)
- History 153, History of Mexico (3)
- Interdisciplinary Studies 117H, Honors Introduction to Global Studies (3)
- Political Science 201, Introduction to Comparative Politics (3)
- Political Science 220, International Politics (3)



Category B

- Anthropology 101, Introduction to Physical Anthropology (3)
- Astronomy 109, Introduction to the Solar System (3)
- Biology 109, Fundamentals of Biology (3)
—OR—
- Biology 109H, Honors Fundamentals of Biology (3)
- Biology 259, Environmental Biology (4)
- Environmental Studies 140, Environmental Geology (3)
- Environmental Studies 259, Environmental Biology (4)
- Geology 101, Introduction to Geology (3)
- Geology 101L, Introduction to Geology Laboratory (1)
- Geology 140, Environmental Geology (3)
- Geology 150, Introduction to Oceanography (3)
—OR—
- Geology 150H, Honors Introduction to Oceanography (3)
- Geology 201, Introduction to Historical Geology (4)
- Business 150, Introduction to Information Systems and Applications (3)

It is strongly recommended that geography majors transferring to the CSU or UC system complete Foreign Language courses at the 201 and 202 level, and/or Mathematics 219/219H.

Total 19

Option 2

Associate in Arts in Geography for Transfer
Program code: sac.geog.aat

The Associate in Arts in Geography for Transfer (A.A.-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 A.A.-T degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU. **See page 28 for a list of additional requirements for all Associate in Arts for Transfer (A.A.-T) and Associate in Science for Transfer (A.S.-T) degrees.** Upon completion of the A.A.-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):

Students will 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 (6 units)	Units
Geography 102, Cultural Geography	3
Geography 101, Physical Geography	3

List A - select 6-7 Units	6-7
Geography 101L, Physical Geography Laboratory (1)	
Geography 100, World Regional Geography (3)	
Business Applications 150, Introduction to Geographic Information Systems (3)	

List B - select 6 units

- Any course not selected in list A above
- Anthropology 100, Introduction to Cultural Anthropology (3)
—OR—
- Anthropology 100H, Honors Introduction to Cultural Anthropology (3)
- Biology 109, Fundamentals of Biology (3)
—OR—
- Biology 109H, Honors Fundamentals of Biology (3)
- Biology 109L, Fundamentals of Biology Laboratory (1)
- Biology 211, Cellular and Molecular Biology (5)
- Biology 212, Animal Diversity and Ecology (5)
- Biology 214, Plant Diversity and Evolution (5)
- Chemistry 209, Introductory Chemistry (4)
- Chemistry 219, General Chemistry (5)
—OR—
- Chemistry 219H, Honors General Chemistry (5)
- Computer Science 105, Visual BASIC Programming (3)
- Computer Science 120, Introduction to Programming (3)
- Computer Science 121, Programming Concepts (3)
- Computer Science 131, Data Structures Concepts (3)
- Earth Science 110, Introduction to Earth Science (3)
—OR—
- Earth Science 110H, Honors Introduction to Earth Science (3)
- Economics 120, Principles/Macro (3)
- Economics 121, Principles/Micro (3)
- English 102, Literature and Composition (4)
—OR—
- English 102H, Honors Literature and Composition (4)
- English 103, Critical Thinking and Writing (4)
—OR—
- English 103H, Honors Critical Thinking and Writing (4)
- Geology 101, Introduction to Geology (3)
- Geology 101L, Introduction to Geology Laboratory (1)
- Mathematics 150, Calculus for Biological, Management and Social Sciences (4)
- Mathematics 180, Analytic Geometry and Calculus I (4)
—OR—
- Mathematics 180H, Honors Analytic Geometry and Calculus (4)
- Mathematics 185, Analytic Geometry and Calculus II (4)
- Mathematics 219, Statistics and Probability (4)
—OR—
- Mathematics 219H, Honors Statistics and Probability (4)
- Philosophy 110, Critical Thinking (4)
—OR—
- Philosophy 110H, Honors Critical Thinking (4)
- Physics 109, Survey of General Physics (4)
- Physics 279, College Physics I (4)
- Physics 289, College Physics II (4)
- Political Science 101, Introduction to American Governments (3)
—OR—
- Political Science 101H, Honors Introduction to American Governments (3)
- Political Science 220, International Politics (3)

Total 18-19

GEOLOGY

Option 1

Geology Degree

Program code: sac.geol.as

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):

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.

Major requirements for the associate in science degree:

Course	Units
Geology 101, Introduction to Geology	3
Geology 101L, Introduction to Geology Laboratory	1
Geology/Environmental Studies 140, Environmental Geology —OR—	
Geology/Earth Science 150, Introduction to Oceanography —OR—	3
Geology/Earth Science 150H, Honors Introduction to Oceanography	
Geology 201, Introduction to Historical Geology	4
Chemistry 219, General Chemistry	5
Electives: Select a minimum of 8 units from the courses below:	8
Biology 211, Cellular and Molecular Biology (5)	
Biology 212, Animal Diversity and Ecology (5)	
Biology 214, Plant Diversity and Evolution (5)	
Chemistry 229, General Chemistry and Qualitative Analysis (5)	
Mathematics 180, Analytic Geometry and Calculus I (4) —OR—	
Mathematics 180H, Honors Analytic Geometry and Calculus (4)	
Mathematics 185, Analytic Geometry and 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

Option 2

Associate in Science in Geology for Transfer Program code: sac.geol.ast

The Associate in Science in Geology for Transfer (A.S.-T) 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 A.S.-T 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 28 for a list of additional requirements for all Associate in Arts for Transfer (A.A.-T) and Associate in Science for Transfer (A.S.-T) degrees.** Upon completion of the A.S.-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):

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.

Courses	Units
Required Core (26 units)	
Geology 101, Introduction to Geology	3
Geology 101L, Introduction to Geology Laboratory	1
Geology 201, Introduction to Historical Geology	4
Chemistry 219, General Chemistry —OR—	5
Chemistry 219H, Honors General Chemistry	
Chemistry 229, General Chemistry and Qualitative Analysis 5	
Mathematics 180, Analytic Geometry and Calculus I —OR—	4
Mathematics 180H, Honors Analytic Geometry and Calculus	
Mathematics 185, Analytic Geometry and Calculus II	4
Total Units	26

HISTORY

Option 1

History Degree

Program code: sac.hist.aa

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):

1. Students 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 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.

Major requirements for the associate in arts degree:

Course	Units
History 101, World Civilizations to the 16th Century —OR—	3
History 101H, Honors World Civilizations to the 16th Century	
History 102, World Civilizations Since the 16th Century —OR—	3
History 102H, Honors World Civilizations Since the 16th Century	
History 120, United States to 1865 —OR—	3
History 120H, Honors United States to 1865	
History 121, United States Since 1865 —OR—	3
History 121H, Honors United States Since 1865	

Required Electives: Choose 3 electives from the following group. Must include at least one History class.

Economics 120; Geography 100 or 100H; History 123, 124 or 124H, 127, 133, 146, 150, 151, 163; Philosophy 112, 118; Political Science 101 or 101H, 200, 201, 220.

Total 21



Option 2
Associate in Arts in History for Transfer
Program code: sac.hist.aat

The Associate in Arts in History for Transfer (A.A.-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 A.A.-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 28 for a list of additional requirements for all Associate in Arts for Transfer (A.A.-T) and Associate in Science for Transfer (A.S.-T) degrees.** Upon completion of the A.A.-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):

1. Students 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 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 (6 units)	Units
History 120, The United States to 1865 —OR—	3
History 120H, Honors The United States to 1865	
History 121, The United States since 1865 —OR—	3
History 121H, Honors The United States since 1865	

List A – select 2 courses: 6 units

History 101, World Civilizations to the 16th Century —OR—	3
History 101H, Honors World Civilizations to the 16th Century	
History 102, World Civilizations Since the 16th Century —OR—	3
History 102H, Honors World Civilizations Since the 16th Century	

List B – select 1 course from each area: 6 units

Area 1: 3-5 units

History 150, Latin American Civilization to Independence (3)	
History 151, Modern Latin American Civilization (3)	
History 153, History of Mexico (3)	
History 163, Introduction to Southeast Asian History (3)	
History 124, Mexican American History in the United States (3) —OR—	3-5
History 124H, Honors Mexican American History in the United States (3)	
History 125, Native Americans in the U.S. (3)	
History 127, Women in U.S. History (3)	
History 146, African American History from 1863 to the Present (3)	
History 181, Survey of Chicana/Latina Women's History (3)	
Spanish 102, Elementary Spanish II (5) —OR—	
Spanish 102H, Honors Elementary Spanish II (5)	

Area 2: 3 units

History 118, Social and Cultural History of the United States (3)	
History 133, History of California (3)	
Geography 100, World Regional Geography (3) —OR—	3
Geography 100H, Honors World Regional Geography (3)	
Total	18-20

HOME ECONOMICS

(See Fashion Design Merchandising, or Nutrition and Food)

HOSPITAL PHARMACY TECHNOLOGY

(See Pharmacy Technology)

HUMAN DEVELOPMENT

(See Child Development)

INDUSTRIAL TECHNOLOGY

(See Engineering)

INTERNATIONAL BUSINESS

International Business Degree
Program code: sac.ib.aa

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. 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):

Students will be prepared to enter the field of International Business and obtain the Certified Global Business Professional Credential.

Required Core Courses:	Units
Business 100, Fundamentals of Business —OR—	3
Entrepreneurship 100, Introduction to Innovation and Entrepreneurship	



Business 106, Culture and International Business - Kiss, Bow or Shake Hands	3
Business 125, Introduction to International Business	3
Business 222, Business Writing —OR—	3
Management 122, Business Communications	

Sequence Courses:

(All courses in all sequences must be completed to earn this degree.)

Marketing Sequence:

Business 141, The Globalization of Marketing	1
Business 142, International Market Research and Planning	1
Business 143, Packaging, Pricing and Promoting Products/Services for Export	1
Business 145, Channels of Distribution in International Markets	1

Finance Sequence:

Business 163, International Methods of Payment and Letters of Credit	1
Business 164, Alternative Financing Techniques for International Trade	1
Business 165, International Trade Finance and Insurance	1
Business 166, Financing an Import/Export Business	1

Law Sequence:

Business 147, International Commercial Agreements and Distribution Law	1
Business 148, International Intellectual Property Law	1
Business 149, The Law of Global Commerce	1

Logistics Sequence:

Business 110, Export Pricing, Quotations and Terms of Trade	1
Business 111, International Business Documentation—Beginning	1
Business 113, International Transportation	1
Business 114, International Documentation and Supply Chain Management	1

Import Sequence:

Business 180, Finding and Evaluating Products for Import	1
Business 182, Classifying Imports and Clearing U.S. Customs	1

Select ONE course from the following: 3-4

- Accounting 101, Financial Accounting (4)
- Business 120, Principles of Management (3)
- Management 120, Principles of Management (3)
- Marketing 113, Principles of Marketing (3)

Total 32-33

International Business Certificate (Transcribed)

Program code: sac.ib.ca

Learning Outcome(s):

Students will be prepared to enter the field of International Business and obtain the Certified Global Business Professional Credential.

Required Core Courses:

	Units
Business 106, Culture and International Business - Kiss, Bow or Shake Hands	3
Business 125, Introduction to International Business	3

Sequence Requirements

(All sequence courses must be completed to earn this certificate.)

Marketing Sequence:

Business 141, The Globalization of Marketing	1
Business 142, International Market Research and Planning	1
Business 143, Packaging, Pricing and Promoting Products/Services for Export	1
Business 145, Channels of Distribution in International Markets	1

Financial Sequence:

Business 163, International Methods of Payment and Letters of Credit	1
Business 164, Alternative Financing Techniques for International Trade	1
Business 165, International Trade Finance and Insurance	1
Business 166, Financing an Import/Export Business	1

Law Sequence:

Business 147, International Commercial Agreements and Distribution Law	1
Business 148, International Intellectual Property Law	1
Business 149, The Law of Global Commerce	1

Logistics Sequence:

Business 110, Export Pricing, Quotations and Terms of Trade	1
Business 111, International Business Documentation—Beginning	1
Business 113, International Transportation	1
Business 114, International Documentation and Supply Chain Management	1

Total 21

Global Trade Skills Certificate (Untranscribed)

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):

Students will demonstrate an understanding of the core subject delineation in International Law, Global Logistics, International Marketing and International Finance in order to sit for the Certified Global Business Professional exam administered by NASBITE.

Complete all courses listed below:

Course	Units
International Logistics Sequence:	
Business 110, Export Pricing, Quotations and Terms of Trade	1
Business 111, International Business Documentation - Beginning	1
Business 113, International Transportation	1
Business 114, International Documentation and Supply Chain Management	1
International Marketing Sequence:	
Business 141, The Globalization of Marketing	1
Business 142, International Market Research and Planning	1
Business 143, Packaging, Pricing and Promoting Products/Services for Export	1
Business 145, Channels of Distribution in International Markets	1



International Law Sequence:	
Business 147, International Commercial Agreements and Distribution Law	1
Business 148, International Intellectual Property Law	1
Business 149, The Law of Global Commerce	1
International Finance Sequence:	
Business 163, International Methods of Payment and Letters of Credit	1
Business 164, Alternative Financing Techniques for International Trade	1
Business 165, International Trade Finance and Insurance	1
Business 166, Financing an Import/Export Business	1
Importing Sequence:	
Business 180, Finding and Evaluating Products for Import	1
Business 182, Classifying Imports and Clearing US Customs	1
Total	17

Survey of International Business Certificate (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):

Students will demonstrate an understanding of the international business environment and global cultural, social and economic diversity.

Complete the following 3 core courses:	Units
Business 100, Fundamentals of Business	3
Business 106, Culture and International Business - Kiss, Bow or Shake Hands	3
Business 125, Introduction to International Business	3
Total	9

Global Business and Entrepreneurship Certificate (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):

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).

Course	Units
Business 100, Fundamentals of Business	3
Business 125, Introduction to International Business	3
Entrepreneurship 100, Introduction to Innovation and Entrepreneurship	3
Marketing 113, Principles of Marketing	3
Management 120, Principles of Management	3
-OR-	
Business 120, Principles of Management 3	3
Total	15

International Finance Specialist Certificate (Untranscripted)
Program code: sac.ifs.cert

The International Finance Specialist Certificate is designed to provide students with practical skills in the area of finance. It is designed for business professionals interested in gaining targeted knowledge of international finance as well as to highlight recent information relevant to working professionals. The courses include the latest concepts, techniques, and technology used in the finance industry. The program provides students with cutting edge practical and applicable international finance skills for the global economy.

Learning Outcome(s):

1. Students will demonstrate an understanding of international finance and its role in international trade.
2. Students will be able to complete international letter of credit applications and complete international trade documentation in compliance with those letters of credit.
3. Students will have an understanding of international financial risk inherent with international trade.

Course	Units
Business 163, International Methods of Payment and Letters of Credit	1
Business 164, Alternative Financing Techniques for International Trade 1	1
Business 165, International Trade Finance and Insurance	1
Business 166, Financing an Import/Export Business	1
Total	4

International Law Specialist Certificate (Untranscripted)
Program code: sac.ils.cert

The International law Specialist Certificate is designed to provide students with practical skills in the area of law. It is designed for business professionals interested in gaining targeted knowledge of international law as well as to highlight recent information relevant to working professionals. The courses include the latest concepts, techniques, and technology used in the law industry. The program provides students with cutting edge practical and applicable international law skills for the global economy.

Learning Outcome(s):

1. Students will demonstrate an understanding of international law and its role in international trade.
2. Students will be able to complete international transactions and complete international trade documentation in compliance with the International Chamber of Commerce guidelines.
3. Students will have an understanding of international legal risk inherent with international trade.



Course	Units
Business 147, International Commercial Agreements and Distribution Law (1)	
—OR—	
Paralegal 147, International Commercial Agreements and Distribution Law (1)	1
Business 148, International Intellectual Property Law (1)	
—OR—	
Paralegal 148, International Intellectual Property Law (1)	1
Business 149, The Law of Global Commerce (1)	
—OR—	
Paralegal 149, The Law of Global Commerce (1)	1
Total	3

International Logistics Specialist Certificate (Untranscribed)

Program code: sac.ilos.cert

The International Logistics Specialist Certificate is designed to provide students with practical skills in the area of logistics. It is designed for business professionals interested in gaining targeted knowledge of international logistics as well as to highlight recent information relevant to working professionals. The courses include the latest concepts, techniques, and technology used in the logistics industry. The program provides students with cutting edge practical and applicable international logistics skills for the global economy.

Learning Outcome(s):

1. Students will demonstrate an understanding of global logistics and its role in international trade.
2. Students will be able to complete international transactions and complete international trade documentation in compliance with international transportation regulations and guidelines.
3. Students will have an understanding of global trade and transportation risk inherent with international trade.

Course	Units
Business 110, Export Pricing, Quotations and Terms of Trade	1
Business 111, International Business Documentation - Beginning	1
Business 113, International Transportation	1
Business 114, International Documentation and Supply Chain Management	1
Total	4

International Marketing Specialist Certificate of Proficiency (Untranscribed)

Program code: sac.ims.cert

The International Marketing Specialist Certificate is designed to provide students with practical skills in the area of marketing. It is designed for business professionals interested in gaining targeted knowledge of international marketing as well as to highlight recent information relevant to working professionals. The courses include the latest concepts, techniques, and technology used in the marketing industry. The program provides students with cutting edge practical and applicable international marketing skills for the global economy.

Learning Outcome(s):

1. Students will demonstrate an understanding of the multicultural global marketplace and its role in international trade.
2. Students will be able to complete an international marketing plan to compete in the global marketplace.
3. Students will have an understanding of global culture and trends affecting international trade.

Course	Units
Business 141, The Globalization of Marketing	1
Business 142, International Market Research and Planning	1
Business 143, Packaging, Pricing and Promoting Products/Services for Export	1
Business 145, Channels of Distribution in International Markets	1
Total	4

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC) CERTIFICATE OF ACHIEVEMENT

Program code: sac.igetc.ca

(Complete all Intersegmental General Education Transfer Curriculum Requirements (Plan C) as outlined on page 28.) (Minimum 34 units)

JOURNALISM

(See Communications & Media Studies)

KINESIOLOGY

Option 1

Kinesiology Degree

Program code: sac.kin.aa

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.

Learning Outcome(s):

1. Students will describe the role of Kinesiology/Physical Education in health promotion and disease prevention.
2. Students will demonstrate competence in several physical activities and proficiency in at least 1 physical activity.
3. Students will synthesize knowledge of the 5 components of well-being to discriminate between healthy and detrimental lifestyle choices.

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.



Required Core Courses	Units
Kinesiology Health Education 101, Healthful Living	3
Kinesiology Health Education 104, Nutrition and Fitness	2
Kinesiology Health Education 105, First Aid and Personal Safety	1.5
Kinesiology Health Education 107, Cardiopulmonary Resuscitation	2
Kinesiology Professional 101, Introduction to Kinesiology	3
Biology 149, Human Anatomy and Physiology	4
Biology 239, General Human Anatomy (4)	
Physical Activity Elective Courses (6 units)	6
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	
Kinesiology Professional 125, Sport Psychology (3)	8.5-12	
Kinesiology Professional 140, Movement Education for Elementary School Children (3)		
Kinesiology Professional 150, Sport and Society (3)		
Kinesiology Professional 160, Management of Physical Education and Sport (3)		
Kinesiology Professional 170, Sport Ethics (3)		
Kinesiology Professional 201, Movement Anatomy (3)		
Kinesiology Professional 205, Techniques of Exercise Leadership (1.5)		
Kinesiology Professional 209, Exercise for Special Populations (2)		
Kinesiology Professional 203, Physiology of Cardiovascular Exercise (2)		
—AND—		
Kinesiology Professional 211, Practicum in Fitness Evaluation I (0.5)		
Kinesiology Professional 207, Physiology of Resistance Training (2)		
—AND—		
Kinesiology Professional 213, Practicum in Fitness Evaluation II (0.5)		
Kinesiology Sports Medicine 101, Introduction to Sports Medicine (3)		
Kinesiology Professional 110, Kinesiology-related Occupational Work Experience (1)		
Total	30-33.5	

Option 2
Associate in Arts in Kinesiology for Transfer
Program code: sac.kin.aat

The proposed Associate in Arts in Kinesiology for Transfer (A.A.-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 a local CSU, in the Kinesiology major. **See page 28 for a list of additional requirements for all Associate in Arts for Transfer (A.A.-T) and Associate in Science for Transfer (A.S.-T) degrees.** Upon completion of the A.A.-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 medicineathletic training, physical therapy, and coaching or fitness related fields.

Learning Outcome(s):

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 at least 3 areas of physical activity experience.

Courses	Units
Required Core (14 units)	
Kinesiology Professional 101, Introduction to Kinesiology	3
Biology 239, General Human Anatomy	4
Biology 249, Human Physiology	4
Movement Based Courses: Minimum of three units.	3

- Select a maximum of one (1) course from the Aquatics area:
 - Kinesiology Aquatics 201A, Swimming (1)
 - Kinesiology Aquatics 201B, Intermediate Swimming (1)
- Select a maximum of one (1) course from the Combatives area:
 - Kinesiology Activites 140A, Beginning Karate (1)
 - Kinesiology Activites 155A, Beginning Self-Defense (1)
- Select a maximum of one (1) course from the Dance area:
 - Dance 110, Beginning Mexican Folk Dance (1)
 - Dance 111, Intermediate Mexican Folk Dance (1)
- Select a maximum of one (1) course from the Fitness area:
 - Kinesiology Activites 170A, Beginning Yoga (1)
 - Kinesiology Aerobic Fitness 140A, Beginning Walking/Jogging for Fitness (1)
 - Kinesiology Aerobic Fitness 156A, Beginning Cardio Kickboxing (1)
 - Kinesiology Aerobic Fitness 157A, Beginning Cardio Pump (1)
 - Kinesiology Fitness 147A, Beginning Weight Training (1)
- Select a maximum of one (1) course from the Individual Sports area:
 - Kinesiology Activites 107A, Beginning Badminton (1)
 - Kinesiology Activites 160A, Beginning Tennis (1)
- Select a maximum of one (1) course from the Team Sports area:
 - Kinesiology Activites 220A, Beginning Basketball (1)
 - Kinesiology Activites 260A, Beginning Soccer (1)
 - Kinesiology Activites 270A, Beginning Softball (1)
 - Kinesiology Activites 290A, Beginning Volleyball (1)
 - Kinesiology Activites 290B, Intermediate Volleyball (1)

List A: Select two courses (7.5-9 units)

1. Mathematics 219, Statistics and Probability (4)
 - OR—
 - Mathematics 219H, Honors Statistics and Probability (4)
 - OR—
 - Social Science 219, Statistics and Probability (4)
 - OR—
 - Social Science 219H, Honors Statistics and Probability (4)
2. Chemistry 210, General, Organic and Biochemistry (5)
 - OR—
 - Chemistry 219, General Chemistry (5)
 - OR—
 - Chemistry 219H, Honors General Chemistry (5)
3. Physics 279, College Physics I (4)
 - OR—
 - Physics 210, Principles of Physics I (4)
 - OR—
 - Physics 217, Engineering Physics I (4)
4. Kinesiology Health Education 105, First Aid and Personal Safety (1.5)
 - AND—
 - Kinesiology Health Education 107 Cardiopulmonary Resuscitation (2)

(105 & 107 counts as one course for list A)

Total	21.5 - 23
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Fitness Specialist Certificate (Transcripted)

Program code: sac.knfs.ca

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 be completed within 9 months but includes transferrable coursework for students seeking to further their education in Kinesiology-related fields.

Learning Outcome(s):

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 Courses	Units
Kinesiology Professional 101, Introduction to Kinesiology	3
Kinesiology Professional 110, Kinesiology-related Occupational Work Experience	1
Kinesiology Professional 201, Movement Anatomy (3) —OR—	3-4
Biology 239, General Human Anatomy (4)	
Kinesiology Professional 203, Physiology of Cardiovascular Exercise	2
Kinesiology Professional 205, Techniques of Exercise Leadership	1.5
Kinesiology Professional 207, Physiology of Resistance Training	2
Kinesiology Professional 209, Exercise for Special Populations	2
Kinesiology Professional 211, Practicum in Fitness Evaluation I	0.5
Kinesiology Professional 213, Practicum in Fitness Evaluation II	0.5
Kinesiology Health Education 104, Nutrition and Fitness (2) —OR—	
Nutrition 115, Nutrition (3) —OR—	2-3
Nutrition 115H, Honors Nutrition (3)	
Kinesiology Health Education 107, Cardiopulmonary Resuscitation	2
Select two of the following courses:	1-1.5
Kinesiology Activities 140A, Beginning Karate (1)	
Kinesiology Activities 150A, Beginning Hatha Yoga (1)	
Kinesiology Activities 155A, Beginning Self-Defense (1)	
Kinesiology Activities 170A, Beginning Yoga (1)	
Kinesiology Adapted Activities 211A, Beginning Adapted Aquatics (1)	
Kinesiology Adapted Activities 211B, Intermediate Adapted Aquatics (1)	
Kinesiology Aerobic Fitness 143A, Beginning Extreme Fitness (1)	
Kinesiology Aerobic Fitness 144A, Beginning Cross Training (1)	
Kinesiology Aerobic Fitness 146A, Beginning Stability Ball (1)	
Kinesiology Aerobic Fitness 146B, Intermediate Stability Ball Training (1)	
Kinesiology Aerobic Fitness 150A, Beginning Stretch, Flex and Tone (1)	
Kinesiology Aerobic Fitness 156A, Beginning Cardio Kickboxing (1)	
Kinesiology Aerobic Fitness 156B, Intermediate Cardio Kickboxing (1)	
Kinesiology Aerobic Fitness 157A, Beginning Cardio Pump (1)	
Kinesiology Aquatics 204, Lifesaving (1.5)	
Kinesiology Fitness 101A, Personal Fitness Evaluation I (1)	
Kinesiology Fitness 147A, Beginning Weight Training (1)	
Kinesiology Fitness 147B, Intermediate Weight Training (1)	
Total	22.5 - 24.5

Kinesiology Sports Medicine Certificate (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. Student will recognize and select appropriate athletic injury management response.
2. Students will assess and interpret sport-related injury information then explain that information to players, coaches, athletic trainers, and medical personnel.

Course	Units
Kinesiology Health Education 101, Healthful Living	3
Kinesiology Health Education 104, Nutrition and Fitness	2
Kinesiology Health Education 105, First Aid and Personal Safety	1.5
Kinesiology Health Education 107, Cardiopulmonary Resuscitation	2
Kinesiology Sports Medicine 101, Introduction to Sports Medicine	3
Kinesiology Professional 125, Sports Psychology	3
Kinesiology Professional 110, Kinesiology-related Occupational Work Experience	1
Total	15.5

LAW

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: <https://sites.google.com/site/calbardream/or> www.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.)

Learning Outcome(s):

To prepare students to successfully transfer to a four-year university and successfully enroll in a law school program as part of the California State Bar and California Community College State Chancellor's office initiative, "Pathway to Law School." Upon completion of the program, students will receive a certificate of achievement on their transcript to indicate to admitting universities and law schools they have completed the pathway program.



Lawschool Pathway Certificate of Achievement (Transcripted)
Program code: sac.law.ca

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.”

Required Courses	Units
English 101, Freshman Composition —OR—	4
English 101H, Honors Freshman Composition	
English 103, Critical Thinking and Writing —OR—	
English 103H, Honors Critical Thinking and Writing —OR—	4
Philosophy 110, Critical Thinking —OR—	
Philosophy 110H, Honors Critical Thinking	
Communication Studies 140, Argumentation and Debate	3
Mathematics 219, Statistics and Probability —OR—	
Mathematics 219H, Honors Statistics and Probability —OR—	4
Social Science 219, Statistics and Probability —OR—	
Social Science 219H, Honors Statistics and Probability	
History 120, The United States to 1865 —OR—	3
History 120H, Honors The United States to 1865	
Political Science 101, Introduction to American Governments —OR—	3
Political Science 101H, Honors Introduction to American Governments	
Business 105, Legal Environment of Business —OR—	3
Business 101, Business Law	
Law 100, Introduction to Legal Studies	3
Paralegal 121, Ethics and Professional Responsibility	2
Paralegal 299, Cooperative Work Experience Education	2-4
Total	31

Legal Office Interpreting Spanish Certificate (Transcripted)
Program code: sac.lois.ca

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.

Learning Outcome(s):

Upon successful completion of the program, students will:

- A. Understand the Ethics and regulations of the legal profession in California by completing Law 100 or Paralegal 100 and Paralegal 121.
- B. Students will understand basic terminology used in the law office and courts by completing the Law 110.
- C. Students will demonstrate an entry level proficiency in legal interpretation (Spanish/English) by completion of Law 058 or Business Applications 058.

Course	Units
Law 058, Legal Interpreting and Translation Spanish/English (3) —OR—	3
Business Applications 058, Legal Interpretation and Translation-Spanish/English (3)	
Law 100, Introduction to Legal Studies (3) —OR—	3
Paralegal 100, The Paralegal Profession (3)	
Law 110, Legal Terminology	2
Law 299, Cooperative Work Experience Education - Occupational	3
Paralegal 121, Ethics and Professional Responsibility	2
Total	13

Legal Office Technician Certificate (Transcripted)
Program code: sac.lot.ca

This certificate program is designed to prepare the student for employment in a law office. The program will prepare the student with technical office skills for employment in a law office to assist 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):

Upon successful completion of the program, students will:

- A. Understand the ethical and professional responsibilities of the legal profession by completing the Para 100 or Law 100 and Paralegal 121.
- B. Students will understand the procedures of a law office by completing Paralegal 101.
- C. Students will achieve an entry level proficiency in the technology utilized in a law office by completing Business 150 or Computer Science 100 or Business Applications 179.
- D. Students will understand proper formatting, grammar and punctuation of business documents by completing Management 122 or Business 222.
- E. Students will understand basic Accounting procedures by completing Accounting 010.

Course	Units
Law 100, Introduction to Legal Studies (3) —OR—	3
Paralegal 100, The Paralegal Profession (3)	
Paralegal 101, Law Office Management	2
Paralegal 121, Ethics and Professional Responsibility	2
Law 299, Cooperative Work Experience Education - Occupational	2-4
Law 110, Legal Terminology	2
Business 150, Introduction to Information Systems and Applications (3) —OR—	3-4
Computer Science 100, The Computer and Society (3) —OR—	
Business Applications 179, Introduction to Microsoft Office (4)	
Management 122, Business Communications (3) —OR—	3
Business 222, Business Writing (3)	
Accounting 010, Accounting Procedures	3
Total	20-23

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.



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.

I. Requirements:

1. Complete general education Plan A (associate degree only, non-transfer), B (CSU-GE Breadth, CSU transfer), or C (IGETC, UC or CSU transfer) as related to your educational goal.
2. 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.* (Note: Courses in the closed "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.
3. Complete all other associate degree requirements for Santa Ana College.

II. Areas of Emphasis:

1. American Studies

Program code: sac.laas.aa

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.

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.

Choose 18 units from the following courses

American Sign Language 110, American Sign Language I (4)
 American Sign Language 111, American Sign Language II (4)
 American Sign Language 116, Introduction to Deaf Studies (3)
 American Sign Language 210, American Sign Language III (4)
 Anthropology 100, Introduction to Cultural Anthropology (3)
 —OR—
 Anthropology 100H, Honors Introduction to Cultural Anthropology (3)
 Anthropology 104, Language and Culture (3)
 —OR—
 Anthropology 104H, Honors Language and Culture (3)
 Anthropology 125, Native Americans in the U.S. (3)
 Art 103, African Art History (3)
 Art 104, Mexican and Chicano Art History (3)
 Art 108, Contemporary Art History: Art Since Mid-Century (3)
 Asian American Studies 101, Introduction to Asian American Studies (3)
 Biology 200, Environment of Man (3)
 Black Studies 101, Introduction to Black Studies (3)
 Chicano Studies 101, Introduction to Chicano Studies (3)
 Child Development 110, Child, Family, and Community (DS2) (3)
 Child Development 221, Living and Teaching in a Diverse Society (3)

Communication Studies 103, Introduction to Intercultural Communication (3)
 —OR—
 Communication Studies 103H, Honors Introduction to Intercultural Communication (3)
 Communication Studies 206, Gender Communication (3)
 —OR—
 Communication Studies 206H, Honors Gender Communication (3)
 Communications & Media Studies 105, Mass Media and Society (3)
 —OR—
 Communications & Media Studies 105H, Honors Mass Media and Society (3)
 Communications & Media Studies 111, Media, Race and Gender (3)
 Communications & Media Studies 121, Introduction to Reporting and Newswriting (3)
 Computer Science 100, The Computer and Society (3)
 Counseling 100, Lifelong Understanding and Self-Development, 2
 Counseling 116, Career/Life Planning and Personal Exploration (3)
 Counseling 128, Introduction to Community Activism (3)
 Criminal Justice 101, Introduction to Criminal Justice (3)
 Criminal Justice 107, Principles and Procedures in the Criminal Justice System (3)
 Dance 100, Dance History and Appreciation (3)
 —OR—
 Dance 100H, Honors Dance History and Appreciation (3)
 Education 100, Introduction to Education (3)
 English 104, Language and Culture (3)
 —OR—
 English 104H, Honors Language and Culture (3)
 English 241, Survey of American Literature 1600-1865 (3)
 English 242, Survey of American Literature, 1865-Present (3)
 English 245, The Image of African Americans in Literature and Films (3)
 English 246, Survey of Chicano Literature (3)
 Society (3)
 Environmental Studies 200, Environment of Man (3)
 Ethnic Studies 101, Introduction to Ethnic Studies (3)
 —OR—
 Ethnic Studies 101H, Honors Introduction to Ethnic Studies (3)
 Ethnic Studies 102, The Borderlands: Cultural Context and Intercultural Relations (3)
 —OR—
 Ethnic Studies 102H, Honors the Borderlands: Cultural Context and Intercultural Relations (3)
 Geography 140, California Geography (3)
 History 118, Social and Cultural History of the United States (3)
 History 120, The United States to 1865 (3)
 —OR—
 History 120H, Honors The United States to 1865 (3)
 History 121, The United States since 1865 (3)
 —OR—
 History 121H, Honors The United States since 1865 (3)
 History 123, African American History to 1865 (3)
 History 124, Mexican American History in the United States (3)
 —OR—
 History 124H, Honors Mexican American History in the United States (3)
 History 125, Native Americans in the U.S. (3)
 History 127, Women in U.S. History (3)
 History 133, History of California (3)
 History 146, African American History from 1863 to the Present (3)
 Kinesiology Health Education 101, Healthful Living (3)
 Kinesiology Health Education 102, Women's Health Issues (3)
 Kinesiology Professional 170, Sport Ethics (3)
 Music 103, Jazz in America (3)
 Music 104, Rock Music History and Appreciation (3)
 Music 105, Film Music Appreciation (3)
 Nutrition and Food 118, Cultural Foods (3)



Paralegal 107, Principles and Procedures in the Criminal Justice System (3)	
Political Science 101, Introduction to American Governments (3)	
Political Science 101H, Honors Introduction to American Governments (3)	—OR—
Political Science 200, American Political Thought (3)	
Political Science 200H, Honors American Political Thought (3)	—OR—
Political Science 235, Identity Politics (3)	
Psychology 170, Multicultural Psychology (3)	
Sociology 112, Relationships, Marriages, and Family Dynamics (3)	
Sociology 140, Analysis of Social Trends and Problems (3)	—OR—
Sociology 140H, Honors Analysis of Social Trends and Problems (3)	
Television/Video Communications 101, TV and Society: A Visual History (3)	
Television/Video Communications 103, History of Film to 1945 (3)	
Television/Video Communications 104, History of Film from 1945 to Present (3)	
Theatre Arts 100, Introduction to Theatre (3)	
Womens Studies 101, Introduction to Women's Studies (3)	
Womens Studies 102, Women in America: Work, Family, Self (3)	
Total	18

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.

2. Arts, Humanities and Communications

Program code: sac.laahc.aa

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 also 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.

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 judgments.

Arts

Art 100, Introduction to Art Concepts (3)	
Art 100H, Honors Introduction to Art Concepts (3)	—OR—
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, African Art History (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-Century (3)	
Art 110, Two-Dimensional Design (3)	

Communications & Media Studies 103, Introduction to Visual Communications (3)	
Communications & Media Studies 105, Mass Media and Society (3)	—OR—
Communications & Media Studies 105H, Honors Mass Media and Society (3)	
Dance 100, Dance History and Appreciation (3)	
Dance 100H, Honors Dance History and Appreciation (3)	
Dance 102, Introduction to Dance Forms (3)	
Dance 105, World Dance and Cultures (3)	
English 233A, Shakespeare's Comedies and Romances (3)	
English 233B, Shakespeare's Tragedies and History Plays (3)	
English 233C, Shakespeare's Theatre (3)	
Interdisciplinary Studies 121, Humanities Through the Arts (3)	
Music 101, Music Appreciation (3)	—OR—
Music 101H, Honors Music Appreciation (3)	
Music 102, World Music (3)	—OR—
Music 102H, Honors World Music (3)	
Music 103, Jazz in America (3)	
Music 104, Rock Music History and Appreciation (3)	
Music 105, Film Music Appreciation (3)	
Music 110, Fundamentals of Music (3)	
Music 111, Basic Music Theory and Musicianship I (4)	
Music 211, Music History and Literature (3)	
Photography 150, History of Photography (3)	
Television/Video Communications 101, TV and Society: A Visual History (3)	
Television/Video Communications 103, History of Film to 1945 (3)	
Television/Video Communications 104, History of Film from 1945 to Present (3)	
Theatre Arts 100, Introduction to Theatre (3)	
Theatre Arts 105, Theatre History 1 (3)	

Humanities

American Sign Language 110, American Sign Language I (4)	
American Sign Language 111, American Sign Language II (4)	
American Sign Language 116, Introduction to Deaf Studies (3)	
American Sign Language 210, American Sign Language III (4)	
Anthropology 104, Language and Culture (3)	—OR—
Anthropology 104H, Honors Language and Culture (3)	
Chinese 101, Elementary Chinese I (5)	
Chinese 102, Elementary Chinese II (5)	
Communications & Media Studies 103, Introduction to Visual Communications (3)	
Communications & Media Studies 110, Introduction to Creative Nonfiction (4)	
Communications & Media Studies 111, Media, Race and Gender (3)	
English 102, Literature and Composition (4)	—OR—
English 102H, Honors Literature and Composition (4)	
English 104, Language and Culture (3)	—OR—
English 104H, Honors Language and Culture (3)	
English 206, Introduction to Language Structure and Use (3)	
English 220, Survey of the Bible as Literature (3)	
English 231, Survey of English Literature I (3)	
English 232, Survey of English Literature II (3)	
English 233A, Shakespeare's Comedies and Romances (3)	
English 233B, Shakespeare's Tragedies and History Plays (3)	
English 233C, Shakespeare's Theatre (3)	
English 241, Survey of American Literature 1600-1865 (3)	
English 242, Survey of American Literature, 1865-Present (3)	
English 243, The Modern American Novel (3)	
English 245, The Image of African Americans in Literature and Films (3)	
English 246, Survey of Chicano Literature (3)	



English 270, Children's Literature (3)
 English 271, Survey of World Literature I (3)
 English 272, Survey of World Literature II (3)
 English 278, Survey of Literature by Women (3)
 French 101, Elementary French I (5)
 French 102, Elementary French II (5)
 French 201, Intermediate French I (5)
 —OR—
 French 201H, Honors Intermediate French I (5)
 French 202, Intermediate French II (5)
 —OR—
 French 202H, Honors Intermediate French II (5)
 History 101, World Civilizations to the 16th Century (3)
 —OR—
 History 101H, Honors World Civilizations to the 16th Century (3)
 History 102, World Civilizations Since the 16th Century (3)
 —OR—
 History 102H, Honors World Civilizations Since the 16th Century (3)
 History 150, Latin American Civilization to Independence (3)
 History 151, Modern Latin American Civilization (3)
 History 153, History of Mexico (3)
 History 163, Introduction to Southeast Asian History (3)
 Interdisciplinary Studies 121, Humanities Through the Arts (3)
 Interdisciplinary Studies 200, Introduction to Liberal Studies (3)
 Italian 120, Elementary Italian I (5)
 Italian 121, Elementary Italian II (5)
 Japan 101, Elementary Japanese I (5)
 Japan 102, Elementary Japanese II (5)
 Kinesiology Professional 170, Sport Ethics (3)
 Philosophy 106, Introduction to Philosophy (3)
 —OR—
 Philosophy 106H, Honors Introduction to Philosophy (3)
 Philosophy 108, Ethics (3)
 Philosophy 112, World Religions (3)
 Philosophy 118, History of Philosophy (3)
 Spanish 101, Elementary Spanish I (5)
 —OR—
 Spanish 101H, Honors Elementary Spanish I (5)
 Spanish 102, Elementary Spanish II (5)
 —OR—
 Spanish 102H, Honors Elementary Spanish II (5)
 Spanish 195A, Advanced Conversational Spanish (3)
 Spanish 195B, Advanced Conversational Spanish (3)
 Spanish 201, Intermediate Spanish I (5)
 —OR—
 Spanish 201H, Honors Intermediate Spanish I (5)
 Spanish 202, Intermediate Spanish II (5)
 —OR—
 Spanish 202H, Honors Intermediate Spanish II (5)
 Vietnamese 101, Elementary Vietnamese I (5)
 Vietnamese 102, Elementary Vietnamese II (5)

Communications

Communication Studies 101, Introduction to Interpersonal Communication (3)
 —OR—
 Communication Studies 101H, Honors Introduction to Interpersonal Communication (3)
 Communication Studies 102, Public Speaking (3)
 Communication Studies 103, Introduction to Intercultural Communication (3)
 —OR—
 Communication Studies 103H, Honors Introduction to Intercultural Communication (3)
 Communication Studies 140, Argumentation and Debate (3)
 Communication Studies 145, Group Dynamics (3)
 Communication Studies 152, Oral Interpretation (3)
 Counseling 144, Reasoning and Problem Solving (3)
 English 101, Freshman Composition (4)
 —OR—
 English 101H, Honors Freshman Composition (4)
 English 102, Literature and Composition (4)
 —OR—
 English 102H, Honors Literature and Composition (4)
 English 103, Critical Thinking and Writing (4)

—OR—
 English 103H, Honors Critical Thinking and Writing (4)
 English for Multilingual Students 112, Advanced Composition (3)
 Philosophy 110, Critical Thinking (4)
 —OR—
 Philosophy 110H, Honors Critical Thinking (4)
 Philosophy 111, Introductory Logic (4)
 Philosophy 144, Reasoning and Problem Solving (3)
 Reading 102, Academic Reading (3)
 Reading 150, Critical Reading (3)

Total 18

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.

3. Business and Technology Program code: sac.labt.aa

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.

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.

Business

Accounting 101, Financial Accounting (4)
 Accounting 102, Managerial Accounting (4)
 Business 100, Fundamentals of Business (3)
 Business 101, Business Law (3)
 Business 106, Culture and International Business - Kiss, Bow or Shake Hands (3)
 Business 120, Principles of Management (3)
 Business 121, Human Relations and Organizational Behavior (3)
 Business 125, Introduction to International Business (3)
 Business 140, Principles of Finance (3)
 Business 150, Introduction to Information Systems and Applications (3)
 Business 222, Business Writing (3)
 Economics 120, Principles/Macro (3)
 Economics 121, Principles/Micro (3)
 Management 122, Business Communications (3)
 Management 135, Human Resource Management (3)
 Marketing 113, Principles of Marketing (3)
 Mathematics 140, College Algebra (4)
 Mathematics 145, Finite Mathematics (4)
 Mathematics 150, Calculus for Biological, Management and Social Sciences (4)
 Mathematics, 180 Analytic Geometry and Calculus (4)
 Mathematics, 219 Statistics and Probability (4)
 —OR—
 Mathematics, 219H Honors Statistics and Probability (4)
 Paralegal 131, Alternate Dispute Resolution (2)
 Paralegal 133, Workers Compensation Law and Procedure (2)
 Paralegal 136, Real Property Law and Procedure (2)
 Paralegal 138, Law of Business Organizations (2)
 Paralegal 140, Immigration Law and Procedure (2)



Technology

Business Applications 150, Introduction to Geographic Information Systems (3)	
Business Applications 179, Introduction to Microsoft Office (4)	
Computer Science 100, The Computer and Society (3)	
Computer Science 105, Visual Business Applications/SIC Programming 3	
Computer Science 121, Programming Concepts (3)	
Computer Science 136, Building a Small Office/Home Office Network 1.5	
Computer Science 163, Microsoft Excel (3)	
Computer Science 167, Microsoft Access (3)	
Engineering 100A, Introduction to Engineering (2)	
Engineering 100B, Introduction to Architecture/Civil Engineering/Construction (AEC) (2)	
Engineering 112, Society and the Built Environment (3)	
Total	18

4. Kinesiology and Wellness Program code: sac.lakw.aa

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.

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.

a. Kinesiology and Movement (minimum 3 units)

Dance 100, Dance History and Appreciation (3)	
—OR—	
Dance 100H, Honors Dance History and Appreciation (3)	
Dance 102, Introduction to Dance Forms (3)	
Dance 105, World Dance and Cultures (3)	
Kinesiology Health Education 101, Healthful Living (3)	
Kinesiology Health Education 102, Women's Health Issues (3)	
Kinesiology Health Education 103, Men's Health Issues (3)	
Kinesiology Health Education 104, Nutrition and Fitness (2)	
Kinesiology Health Education 105, First Aid and Personal Safety (1.5)	
Kinesiology Health Education 106, Cardiopulmonary Resuscitation and First Aid (3)	
Kinesiology Professional 101, Introduction to Kinesiology (3)	
Kinesiology Professional 125, Sport Psychology (3)	
Kinesiology Professional 150, Sport and Society (3)	
Kinesiology Professional 155, Theory of Soccer (2)	
Kinesiology Professional 160, Management of Physical Education and Sport (3)	
Kinesiology Professional 165, Theory of Softball (2)	
Kinesiology Professional 170, Sport Ethics (3)	
Kinesiology Professional 175, Theory of Football (2)	
Kinesiology Professional 200, Theory of Baseball (2)	
Kinesiology Professional 201, Movement Anatomy (3)	
Kinesiology Sports Medicine 101, Introduction to Sports Medicine (3)	

b. Scientific and Nutrition Foundation (minimum 3 units)

Anthropology 101, Introduction to Physical Anthropology (3)	
Anthropology 101L, Physical Anthropology Laboratory (1)	
Biology 109, Fundamentals of Biology (3)	
—OR—	
Biology 109H, Honors Fundamentals of Biology (3)	
Biology 109L, Fundamentals of Biology Laboratory (1)	
Biology 115, Concepts in Biology for Educators (4)	
Biology 139 Health Microbiology (4)	

Biology 149, Human Anatomy and Physiology (4)	
Biology 177, Human Genetics (3)	
Biology 200, Environment of Man (3)	
Biology 211, Cellular and Molecular Biology (5)	
Biology 212, Animal Diversity and Ecology (5)	
Biology 214, Plant Diversity and Evolution (5)	
Biology 217, Pathophysiology 2	
Biology 229, General Microbiology (5)	
Biology 239, General Human Anatomy (4)	
Biology 249, Human Physiology (4)	
Biology 259, Environmental Biology (4)	
Chemistry 109, Chemistry in the Community (4)	
Chemistry 115, Concepts in Physical Sciences for Educators (4)	
Chemistry 119, Fundamentals - General and Organic (5)	
Chemistry 209, Introductory Chemistry (4)	
Chemistry 210, General, Organic and Biochemistry (5)	
Chemistry 219, General Chemistry (5)	
—OR—	
Chemistry 219H, Honors General Chemistry (5)	
Chemistry 229, General Chemistry and Qualitative Analysis (5)	
Environmental Studies 200, Environment of Man (3)	
Interdisciplinary Studies 155, Human Sexuality (3)	
Nutrition and Food 115, Nutrition (3)	
Nutrition and Food 116, Principles of Food Preparation (3)	
Nutrition and Food 118, Cultural Foods (3)	
Physics 109, Survey of General Physics (4)	
Physics 210, Principles of Physics I (4)	
Physics 211, Principles of Physics II (4)	
Physics 217, Engineering Physics I (4)	
Physics 227, Engineering Physics II (4)	
Physics 237, Engineering Physics III (4)	
Physics 279, College Physics I (4)	
Physics 289, College Physics II (4)	

c. Behavioral Development, Communication, and Diversity (minimum 3 units)

Asian American Studies 101, Introduction to Asian American Studies (3)	
Black Studies 101, Introduction to Black Studies (3)	
Chicano Studies 101, Introduction to Chicano Studies (3)	
Child Development 107, Child Growth and Development (DS1) (3)	
Communication Studies 101, Introduction to Interpersonal Communication (3)	
—OR—	
Communication Studies 101H, Honors Introduction to Interpersonal Communication (3)	
Communication Studies 102, Public Speaking (3)	
Communication Studies 103, Introduction to Intercultural Communication (3)	
—OR—	
Communication Studies 103H, Honors Introduction to Intercultural Communication (3)	
Communication Studies 140, Argumentation and Debate (3)	
Communication Studies 145, Group Dynamics (3)	
Communication Studies 206, Gender Communication (3)	
—OR—	
Communication Studies 206H, Honors Gender Communication (3)	
Counseling 100, Lifelong Understanding and Self-Development (2)	
Counseling 107, The Freshman Experience (3)	
Counseling 116, Career/Life Planning and Personal Exploration (3)	
Counseling 124, College Success and Personal Growth (3)	
Counseling 150, Introduction to Human Services (3)	
Counseling 155, Skills for the Helping Professions (3)	
Ethnic Studies 101, Introduction to Ethnic Studies (3)	
Psychology 100, Introduction to Psychology 3	
—OR—	
Psychology 100H, Honors Introduction to Psychology (3)	



Psychology 140, Introduction to Psychology of Adulthood and Aging (3)

Psychology 157, Introduction to Child Psychology (3)

Psychology 170, Multicultural Psychology (3)

Psychology 200, Introduction to Biological Psychology (3)

Psychology 230, Psychology and Effective Behavior (3)

Psychology 240, Introduction to Social Psychology (3)

Psychology 250, Introduction to Abnormal Psychology (3)

Sociology 100, Introduction to Sociology (3)

—OR—

Sociology 100H, Honors Introduction to Sociology (3)

Sociology 112, Relationships, Marriages, and Family Dynamics (3)

Sociology 140, Analysis of Social Trends and Problems (3)

—OR—

Sociology 140H, Honors Analysis of Social Trends and Problems (3)

Sociology 240, Introduction to Social Psychology (3)

Womens Studies 101, Introduction to Women's Studies (3)

Womens Studies 102, Women in America: Work, Family, Self 3

d. Physical Activity (6 units selected from at least three different areas)

Dance 009, Dance Class Laboratory 0.5

Dance 102, Introduction to Dance Forms (3)

Dance 106A, Introduction to Modern Dance (1)

Dance 106B, Introduction to Modern Dance (1)

Dance 107, Dance Concert Performance (1)

Dance 108A, Introduction to Ballet (1)

Dance 108B, Introduction to Ballet (1)

Dance 109A, Pilates Mat I (1)

Dance 109B, Pilates Mat II (1)

Dance 109C, Pilates Mat III (1)

Dance 110, Beginning Mexican Folk Dance (1)

Dance 111, Intermediate Mexican Folk Dance (1)

Dance 112, Ethnic Dance (1)

Dance 113A, Flamenco Dance I (1)

Dance 113B, Flamenco Dance II (1)

Dance 117, Introduction to Middle Eastern Dance (1)

Dance 118, Introduction to Caribbean and Latin Dance Styles (1)

Dance 119A, Introduction to Jazz Dance (1)

Dance 119B, Introduction to Jazz Dance (1)

Dance 120A, Introduction to Hip-Hop Dance (1)

Dance 120B, Intermediate Hip-Hop Dance (1)

Dance 122, Commercial Contemporary Dance (1)

Dance 123, Introduction to Salsa Dance (1)

Dance 124, Intermediate Salsa Dance (1)

Dance 130, Dance Improvisation (1)

Dance 132, Dance Stretch (1)

Dance 140, Dance Repertory Workshop (1)

Dance 201A, Ballet I (2)

Dance 201B, Ballet II (2)

Dance 202A, Choreography (2)

Dance 202B, Choreography for Dance Majors (2)

Dance 204A, Dance Production (2)

Dance 204B, Dance Production (2)

Dance 205, Performance Ensemble (2)

Dance 206A, Modern Dance I 2

Dance 206B, Modern Dance II (2)

Dance 209, Modern Dance III (2)

Dance 210, Modern Dance IV (2)

Dance 213, Ballet III (2)

Dance 214, Ballet IV (2)

Dance 219A, Jazz Dance I (2)

Dance 219B, Jazz Dance II (2)

Dance 220, Jazz Dance III (2)

Dance 221, Jazz Dance IV (2)

Dance 232, Partnering (1)

Dance 240A, Repertory I (2)

Dance 240B, Repertory II (2)

Dance 250A, Hip Hop Dance I (2)

Dance 250B, Hip Hop Dance II (2)

Dance 251, Hip Hop Dance III (2)

Dance 260, Somatic Practices in Dance (3)

Dance 261, Somatic Practices in Modern Dance (1)

Dance 262, Somatic Practices in Ballet (1)

Dance 263, Somatic Practices in Jazz Dance (1)

Dance 270, Dance Internship (2)

Dance 296, Special Studies in Modern Dance (1)

Dance 297, Special Studies in Jazz Dance (1)

Dance 298, Special Studies in Dance (1)

Kinesiology Activities 107A, Beginning Badminton (1)

Kinesiology Activities 107B, Intermediate Badminton (1)

Kinesiology Activities 123, Personal Fitness Training (1)

Kinesiology Activities 140A, Beginning Karate (1)

Kinesiology Activities 150A, Beginning Hatha Yoga (1)

Kinesiology Activities 155A, Beginning Self-Defense (1)

Kinesiology Activities 160A, Beginning Tennis (1)

Kinesiology Activities 169A, Beginning Wrestling (1)

Kinesiology Activities 169B, Intermediate Wrestling (1)

Kinesiology Activities 170A, Beginning Yoga (1)

Kinesiology Activities 200A, Beginning Intramural-Basketball (1)

Kinesiology Activities 200B, Intermediate Intramural Sports-Basketball (1)

Kinesiology Activities 200C, Advanced Intramural Basketball (1)

Kinesiology Activities 211A, Beginning Baseball (1)

Kinesiology Activities 211B, Intermediate Baseball (1)

Kinesiology Activities 220A, Beginning Basketball (1)

Kinesiology Activities 220B, Intermediate Basketball (1)

Kinesiology Activities 220C, Advanced Basketball (1)

Kinesiology Activities 226A, Beginning Water Polo (1)

Kinesiology Activities 260A, Beginning Soccer (1)

Kinesiology Activities 260B, Intermediate Soccer (1)

Kinesiology Activities 265A, Beginning Indoor Soccer (1)

Kinesiology Activities 265B, Intermediate Indoor Soccer (1)

Kinesiology Activities 270A, Beginning Softball (1)

Kinesiology Activities 290A, Beginning Volleyball (1)

Kinesiology Activities 290B, Intermediate Volleyball (1)

Kinesiology Adapted Activities 201A, Beginning Adapted Swimming (1)

Kinesiology Adapted Activities 202A, Beginning Adapted Circuit Training (1)

Kinesiology Adapted Activities 202B, Intermediate Adapted Circuit Training (1)

Kinesiology Adapted Activities 205A, Beginning Adapted Badminton (1)

Kinesiology Adapted Activities 208A, Beginning Adapted Aerobic Fitness (1)

Kinesiology Adapted Activities 208B, Intermediate Adapted Aerobic Fitness (1)

Kinesiology Adapted Activities 211A, Beginning Adapted Aquatics (1)

Kinesiology Adapted Activities 211B, Intermediate Adapted Aquatics (1)

Kinesiology Aerobic Fitness 140A, Beginning Walking/Jogging for Fitness (1)

Kinesiology Aerobic Fitness 143A, Beginning Extreme Fitness 1

Kinesiology Aerobic Fitness 144A, Beginning Cross Training (1)

Kinesiology Aerobic Fitness 146A, Beginning Stability Ball (1)

Kinesiology Aerobic Fitness 146B, Intermediate Stability Ball Training (1)

Kinesiology Aerobic Fitness 150A, Beginning Stretch, Flex and Tone (1)

Kinesiology Aerobic Fitness 156A, Beginning Cardio Kickboxing (1)

Kinesiology Aerobic Fitness 156B, Intermediate Cardio Kickboxing (1)



Kinesiology Aerobic Fitness 157A, Beginning Cardio Pump (1)
 Kinesiology Aquatics 201A, Beginning Swimming (1)
 Kinesiology Aquatics 201B, Lap Swimming (1)
 Kinesiology Aquatics 204, Lifesaving (1)
 Kinesiology Fitness 100, Personal Fitness Evaluation 0.5
 Kinesiology Fitness 101A, Personal Fitness Evaluation I (1)
 Kinesiology Fitness 101B, Personal Fitness Evaluation II (1)
 Kinesiology Fitness 101C, Personal Fitness Evaluation III (1)
 Kinesiology Fitness 102, Personal Fitness Evaluation (2)
 Kinesiology Fitness 109A, Beginning Circuit Training 0.5
 Kinesiology Fitness 109B, Intermediate Circuit Training 0.5
 Kinesiology Fitness 109C, Advanced Circuit Training 0.5
 Kinesiology Fitness 110A, Beginning Circuit Training (1)
 Kinesiology Fitness 110B, Intermediate Circuit Training (1)
 Kinesiology Fitness 110C, Advanced Circuit Training (1)
 Kinesiology Fitness 112A, Beginning Circuit Training (1)
 Kinesiology Fitness 112B, Intermediate Circuit Training (1)
 Kinesiology Fitness 112C, Advanced Circuit Training (1)
 Kinesiology Fitness 115A, Beginning Cardiovascular Conditioning (1)
 Kinesiology Fitness 115B, Intermediate Cardiovascular Conditioning (1)
 Kinesiology Fitness 115C, Advanced Cardiovascular Conditioning (1)
 Kinesiology Fitness 147A, Beginning Weight Training (1)
 Kinesiology Fitness 147B, Intermediate Weight Training (1)
 Kinesiology Intercollegiate Athletics 125, Conditioning for Football (1)
 Kinesiology Intercollegiate Athletics 128, Conditioning for Athletes (1)
 Kinesiology Intercollegiate Athletics 133, Off Season Swimming (1)
 Kinesiology Intercollegiate Athletics 134, Golf-Playing Lesson - Off Season (1)
 Kinesiology Intercollegiate Athletics 171, Wrestling - Off-Season (1)
 Kinesiology Intercollegiate Athletics 201, Baseball Men (3)
 Kinesiology Intercollegiate Athletics 202, Basketball-Men (3)
 Kinesiology Intercollegiate Athletics 204, Football-Men (3)
 Kinesiology Intercollegiate Athletics 206, Swimming-Men (3)
 Kinesiology Intercollegiate Athletics 209, Water Polo-Men (3)
 Kinesiology Intercollegiate Athletics 210, Wrestling-Men (3)
 Kinesiology Intercollegiate Athletics 211, Softball-Women (3)
 Kinesiology Intercollegiate Athletics 212, Basketball-Women (3)
 Kinesiology Intercollegiate Athletics 213, Volleyball-Women (3)
 Kinesiology Intercollegiate Athletics 214, Golf-Women (3)
 Kinesiology Intercollegiate Athletics 216, Soccer-Men (3)
 Kinesiology Intercollegiate Athletics 217, Swimming-Women (3)
 Kinesiology Intercollegiate Athletics 218, Track-Women (3)
 Kinesiology Intercollegiate Athletics 219, Cross Country-Women (3)
 Kinesiology Intercollegiate Athletics 220, Soccer-Women (3)
 Kinesiology Intercollegiate Athletics 221, Water Polo-Women (3)
 Kinesiology Intercollegiate Athletics 223, Baseball (1)
 Kinesiology Intercollegiate Athletics 227, Off Season Waterpolo (1)
 Kinesiology Intercollegiate Athletics 230, Preseason Football (1)
 Kinesiology Intercollegiate Athletics 231, Football Camp (1)
 Kinesiology Intercollegiate Athletics 232, Football (1)
 Kinesiology Intercollegiate Athletics 235, Speed and Agility 1
 Kinesiology Intercollegiate Athletics 240, Advanced Basketball Skills-Men (1)
 Kinesiology Intercollegiate Athletics 261, Soccer-Women (1)
 Kinesiology Intercollegiate Athletics 262, Soccer-Men (1)
 Kinesiology Intercollegiate Athletics 270, Softball 0.5
 Kinesiology Intercollegiate Athletics 271, Softball - Off Season (1)
 Kinesiology Intercollegiate Athletics 281, Track and Field - Off Season (1)

Kinesiology Intercollegiate Athletics 291, Volleyball - Off Season (1)
 Kinesiology Intercollegiate Athletics 293, Sand Volleyball (1)

Total 18

e. Additional units to be selected from a, b, or c above for a total of 18 units

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.

5. Mathematics and Science
Program code: sac.lams.aa

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 this emphasis. This emphasis may be of interest to those planning to pursue careers in actuarial science, business, computer science, engineering, forensics, health professions, research, science, teaching, and technical writing.

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.

Choose 18 units from the following courses

Anthropology 101, Introduction to Physical Anthropology (3)
 Anthropology 101L, Physical Anthropology Laboratory (3)
 Astronomy 109, Introduction to the Solar System (3)
 Astronomy 110, Introduction to Stars and Galaxies (3)
 —OR—
 Astronomy 110H, Honors Introduction to Stars and Galaxies (3)
 Astronomy 140, Astronomy Laboratory (1)
 Biology 109, Fundamentals of Biology (3)
 —OR—
 Biology 109H, Honors Fundamentals of Biology (3)
 Biology 109L, Fundamentals of Biology Laboratory (1)
 Biology 111, Marine Biology (4)
 Biology 115, Concepts in Biology for Educators (4)
 Biology 139, Health Microbiology (4)
 Biology 149, Human Anatomy and Physiology (4)
 Biology 177, Human Genetics (3)
 Biology 190, Introduction to Biotechnology (3)
 Biology 190L, Introductory Biotech Lab (1)
 Biology 200, Environment of Man (3)
 Biology 211, Cellular and Molecular Biology (5)
 Biology 212, Animal Diversity and Ecology (5)
 Biology 214, Plant Diversity and Evolution (5)
 Biology 229, General Microbiology (5)
 Biology 239, General Human Anatomy (4)
 Biology 259, Environmental Biology (4)
 Chemistry 109, Chemistry in the Community (4)
 Chemistry 115, Concepts in Physical Sciences for Educators (4)
 Chemistry 119, Fundamentals - General and Organic (5)
 Chemistry 209, Introductory Chemistry (4)
 Chemistry 210, General, Organic and Biochemistry (5)
 Chemistry 219, General Chemistry (5)
 —OR—
 Chemistry 219H, Honors General Chemistry (5)
 Chemistry 229, General Chemistry and Qualitative Analysis (5)
 Chemistry 249, Organic Chemistry I (5)
 Chemistry 259, Organic Chemistry II (5)
 Earth Science 110, Introduction to Earth Science 3



	—OR—	
Earth Science 110H, Honors Introduction to Earth Science	(3)	
Earth Science 115, Earth Science for Educators	(4)	
Earth Science 150, Introduction to Oceanography	(3)	
	—OR—	
Earth Science 150H, Honors Introduction to Oceanography	(3)	
Environmental Studies 140, Environmental Geology	(3)	
Environmental Studies 200, Environment of Man	(3)	
Environmental Studies 259, Environmental Biology	(4)	
Geography 101, Physical Geography	(3)	
Geography 101L, Physical Geography Laboratory	(1)	
Geography 130, Introduction to Weather and Climate	(3)	
Geology 101, Introduction to Geology	(3)	
Geology 101L, Introduction to Geology Laboratory	(1)	
Geology 140, Environmental Geology	(3)	
Geology 150, Introduction to Oceanography	(3)	
	—OR—	
Geology 150H, Honors Introduction to Oceanography	(3)	
Geology 201, Introduction to Historical Geology	(4)	
Mathematics 070, Geometry	(3)	
Mathematics 083, Beginning and Intermediate Algebra for Liberal Arts and Social Science	6	
Mathematics 084, Beginning and Intermediate Algebra 6		
Mathematics 105, Mathematics for Liberal Arts Students	(3)	
Mathematics 140, College Algebra	(4)	
Mathematics 145, Finite Mathematics	(4)	
Mathematics 150, Calculus for Biological, Management and Social Sciences	(4)	
Mathematics 160, Trigonometry	(4)	
Mathematics 170, Pre-Calculus Mathematics	(4)	
Mathematics 180, Analytic Geometry and Calculus	(4)	
	—OR—	
Mathematics 180H, Honors Analytic Geometry and Calculus	(4)	
Mathematics 185, Analytic Geometry and Calculus	(4)	
Mathematics 219, Statistics and Probability	(4)	
	—OR—	
Mathematics 219H, Honors Statistics and Probability	(4)	
Mathematics 280, Intermediate Calculus	(4)	
Mathematics 287, Introduction to Linear Algebra and Differential Equations	(5)	
Physical Science 115, Concepts in Physical Sciences for Educators	(4)	
Physical Science 117, Physical Science Survey	(3)	
Physical Science 118, Physical Science Survey Laboratory	(1)	
Physics 109, Survey of General Physics	(4)	
Physics 210, Principles of Physics I	(4)	
Physics 211, Principles of Physics II	(4)	
Physics 217, Engineering Physics I	(4)	
Physics 227, Engineering Physics II	(4)	
Physics 237, Engineering Physics III	(4)	
Physics 279, College Physics I	(4)	
Physics 289, College Physics II	(4)	
Psychology 200, Introduction to Biological Psychology	(3)	
Psychology 210, Statistics for the Behavioral Sciences	(4)	
	Total	18

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.

6. Social and Behavioral Sciences

Program code: sac.lasbs.aa

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.

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.

Choose 18 units from the following courses

Anthropology 100, Introduction to Cultural Anthropology	(3)	18
	—OR—	
Anthropology 100H, Honors Introduction to Cultural Anthropology	(3)	
Anthropology 103, Introduction to Archaeology	(3)	
Anthropology 104, Language and Culture	(3)	
	—OR—	
Anthropology 104, Language and Culture	(3)	
Anthropology 105, Ancient Mesoamerican Civilization	(3)	
Anthropology 125, Native Americans in the U.S.	(3)	
Asian American Studies 101, Introduction to Asian American Studies	(3)	
Biology 200, Environment of Man	(3)	
Black Studies 101, Introduction to Black Studies	(3)	
Chicano Studies 101, Introduction to Chicano Studies	(3)	
Child Development 107, Child Growth and Development (DS1)	(3)	
Child Development 110, Child, Family, and Community (DS2)	(3)	
Communication Studies 103, Introduction to Intercultural Communication	(3)	
	—OR—	
Communication Studies 103H, Honors Introduction to Intercultural Communication	(3)	
Communication Studies 206, Gender Communication	(3)	
	—OR—	
Communication Studies 206H, Honors Gender Communication	(3)	
Communication & Media Studies 105, Mass Media and Society	(3)	
	—OR—	
Communication & Media Studies 105H, Honors Mass Media and Society	(3)	
Communication & Media Studies 111, Media, Race and Gender	(3)	
Computer Science 100, The Computer and Society	(3)	
Counseling 150, Introduction to Human Services	(3)	
Criminal Justice 101, Introduction to Criminal Justice	(3)	
Economics 120, Principles/Macro	(3)	
Economics 121, Principles/Micro	(3)	
English 104, Language and Culture	(3)	
	—OR—	
English 104H, Honors Language and Culture	(3)	
English 245, The Image of African Americans in Literature and Films	(3)	
English 278, Survey of Literature by Women	(3)	
Environmental Studies 200, Environment of Man	(3)	
Ethnic Studies 101, Introduction to Ethnic Studies	(3)	
	—OR—	
Ethnic Studies 101H, Honors Introduction to Ethnic Studies	(3)	



Ethnic Studies 102, The Borderlands: Cultural Context and Intercultural Relations 3
 —OR—
 Ethnic Studies 102H, Honors the Borderlands: Cultural Context and Intercultural Relations (3)
 Geography 100, World Regional Geography (3)
 —OR—
 Geography 100H, Honors World Regional Geography (3)
 Geography 102, Cultural Geography (3)
 Geography 140, California Geography (3)
 History 101, World Civilizations to the 16th Century (3)
 —OR—
 History 101H, Honors World Civilizations to the 16th Century (3)
 History 102, World Civilizations Since the 16th Century (3)
 —OR—
 History 102H, Honors World Civilizations Since the 16th Century (3)
 History 105, Ancient Mesoamerican Civilization (3)
 History 118, Social and Cultural History of the United States (3)
 History 120, The United States to 1865 (3)
 —OR—
 History 120H, Honors The United States to 1865 (3)
 History 121, The United States since 1865 (3)
 —OR—
 History 121H, Honors The United States since 1865 (3)
 History 123, African American History to 1865 (3)
 History 124, Mexican American History in the United States (3)
 —OR—
 History 124H, Honors Mexican American History in the United States (3)
 History 125, Native Americans in the U.S. (3)
 History 127, Women in U.S. History (3)
 History 146, African American History from 1863 to the Present (3)
 History 150, Latin American Civilization to Independence (3)
 History 151, Modern Latin American Civilization (3)
 History 153, History of Mexico (3)
 History 163, Introduction to Southeast Asian History (3)
 History 181, Survey of Chicana/Latina Women's History (3)
 Interdisciplinary Studies 117H, Honors Introduction to Global Studies (3)
 Interdisciplinary Studies 155, Human Sexuality (3)
 Kinesiology Professional 150, Sport and Society (3)
 Political Science 101, Introduction to American Governments (3)
 —OR—
 Political Science 101H, Honors Introduction to American Governments (3)
 Political Science 200, American Political Thought (3)
 —OR—
 Political Science 200H, Honors American Political Thought (3)
 Political Science 201, Introduction to Comparative Politics (3)
 Political Science 220, International Politics (3)
 Political Science 235, Identity Politics 3
 Psychology 100, Introduction to Psychology (3)
 —OR—
 Psychology 100H, Honors Introduction to Psychology (3)
 Psychology 140, Introduction to Psychology of Adulthood and Aging (3)
 Psychology 157, Introduction to Child Psychology (3)
 Psychology 170, Multicultural Psychology (3)
 Psychology 200, Introduction to Biological Psychology (3)
 Psychology 219, Introduction to Research Methods in Psychology (3)
 Psychology 230, Psychology and Effective Behavior (3)
 Psychology 240, Introduction to Social Psychology (3)
 Psychology 250, Introduction to Abnormal Psychology (3)
 Sociology 100, Introduction to Sociology (3)
 —OR—
 Sociology 100H, Honors Introduction to Sociology (3)
 Sociology 112, Relationships, Marriages, and Family Dynamics (3)
 Sociology 140, Analysis of Social Trends and Problems (3)
 —OR—
 Sociology 140H, Honors Analysis of Social Trends and Problems (3)

Sociology 240, Introduction to Social Psychology (3)
 Women's Studies 101, Introduction to Women's Studies (3)
 Women's Studies 102, Women in America: Work, Family, Self (3)
Total 18

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.

LIBRARY TECHNOLOGY

Library Technology Degree Program code: sac.lib.raa

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.

Prior to completion of the Library Technology Degree, students must acquire keyboarding skills (recommended keyboarding speed is at least 40 words per minute). This may be accomplished by successfully completing Business Applications 115 A or B, Computer Keyboarding Speed and Accuracy Development, OR, by credit by exam (contact the Business Applications Department if interested in the exam).

Students must meet with the Library Technology Chair and Counselor for academic advisement before beginning the program. 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 school, public, special or academic libraries.

Major requirements for the associate in arts degree:

Course	Units
Business Applications 115A, Computer Keyboarding Speed and Accuracy Development I	1
—OR— Business Applications 115B, Computer Keyboarding Speed and Accuracy Development II	
Business Applications 179, Introduction to Microsoft Office (4)	3-4
—OR— Business Applications 183, Microsoft Word (3)	
Library Technology 101, Introduction to Library Technology*	3
Library Technology 110, Technical Services*	3
Library Technology 054, Children's Library Services*	3
Library Technology 122, Public Services*	3
Library Technology 102, Information Sources for Paraprofessionals: Tools and Techniques*	3
Library Technology 053, Library Internship	3

Electives must be selected from the following courses: 6

- Accounting 010, Accounting Procedures (3)
- Business Applications 160, Microsoft Publisher (3)
- Business Applications 164, Introduction to Adobe Photoshop (3)
- Business Applications 166, Adobe Illustrator (3)
- Business Applications 169, Adobe Dreamweaver 1.5
- Child Development 107, Child Growth and Development (DS1) (3)



Child Development 120, Development of the School Age Child (DS5) (3)	
Child Development 221, Teaching In A Diverse Society (3)	
Child Development 231, Developing Language and Literacy in Young Children (3)	
Communication Studies 101, Introduction to Interpersonal Communication (3)	
—OR—	
Communication Studies 101H, Honors Introduction to Interpersonal Communication (3)	
Communication Studies 103, Introduction to Intercultural Communication (3)	
—OR—	
Communication Studies 103H, Honors Introduction to Intercultural Communication (3)	
Communication Studies 104, Listening 1.5	
Computer Science 173, Introduction to Networking Technology (3)	
Education 100, Introduction to Education (3)	
English 270, Children's Literature (3)	
Library and Information Studies 100, Library Research Fundamentals (1)	
Management 121, Human Relations and Organizational Behavior (3)	
Management 120, Principles of Management (3)	
Management 122, Business Communications (3)	
Management 125, Organizational Leadership (3)	
Psychology 100, Introduction to Psychology (3)	
—OR—	
Psychology 100H, Honors Introduction to Psychology (3)	
Psychology 140, Introduction to Psychology of Adulthood and Aging (3)	
Psychology 157, Introduction to Child Psychology (3)	
Psychology 170, Multicultural Psychology (3)	
Total	28-29

*Courses not taught every semester.

Library Technology Certificate (Transcripted) Program code: sac.librc.a

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. Prior to completion of the Library Technology Certificate students must acquire keyboarding skills (recommended keyboarding speed is at least 40 words per minute). This may be accomplished by successfully completing Business Applications 115 A or B, Computer Keyboarding Speed and Accuracy Development, OR, by credit by exam (contact the Business Applications Department if interested in the exam).

Students must meet with the Library Technology Chair and Counselor for academic advisement before beginning the program. 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 school, public, special or academic libraries.

A Certificate in Library Technology can be earned through completion of the following required courses:

Course	Units
Business Applications 115A, Computer Keyboarding Speed and Accuracy Development I	1
—OR—	
Business Applications 115B, Computer Keyboarding Speed and Accuracy Development II	
Business Applications 179, Introduction to Microsoft Office (4)	3-4
—OR—	
Business Applications 183, Microsoft Word (3)	
Library Technology 101, Introduction to Library Technology*	3
Library Technology 110, Technical Services*	3
Library Technology 054, Children's Library Services*	3
Library Technology 122, Public Services*	3
Library Technology 102, Information Sources for Paraprofessionals: Tools and Techniques*	3
Library Technology 053, Library Internship	3
Total	22-23

*Courses not taught every semester.

MANAGEMENT

Management Degree Program code: sac.mgt.aa

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):

Students will demonstrate an understanding of the core management functions of planning, organizing, leading, and controlling; demonstrate a thorough understanding of behavioral theories as they apply to organizations and be able to apply that theory to real-world situations; and demonstrate an ability to apply planning methods to business and organizational situations.

Course	Units
Business 100, Fundamentals of Business	3
Business 222, Business Writing	3
Business 120, Principles of Management (3)	3
—OR—	
Management 120, Principles of Management (3)	
Business 121, Human Relations and Organizational Behavior (3)	3
—OR—	
Management 121, Human Relations and Organizational Behavior (3)	
Management 125, Organizational Leadership	3

Select TWO courses from the following:

Accounting 101, Financial Accounting (4)	6-7
Business 105, Legal Environment of Business (3)	
Business 106, Culture and International Business - Kiss, Bow or Shake Hands (3)	
Business 125, Introduction to International Business (3)	
Business 150, Introduction to Information Systems and Applications (3)	
Management 135, Human Resource Management (3)	
Marketing 113, Principles of Marketing (3)	
Total	21-22



Management Certificate (Transcripted)
Program code: sac.mgt.ca

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):

Students will demonstrate an understanding of the core management functions of planning, organizing, leading, and controlling; demonstrate a thorough understanding of behavioral theories as they apply to organizations and be able to apply that theory to real-world situations; and demonstrate an ability to apply planning methods to business and organizational situations.

Course	Units
Business 100, Fundamentals of Business	3
Business 120, Principles of Management (3) —OR—	3
Management 120, Principles of Management (3)	
Business 121, Human Relations and Organizational Behavior (3) —OR—	3
Management 121, Human Relations and Organizational Behavior (3)	
Business 222, Business Writing —OR—	3
Management 122, Business Communications	
Management 125, Organizational Leadership	3

Select TWO courses from the following: 6-7

Accounting 101, Financial Accounting (4)	
Business 105, Legal Environment of Business (3)	
Business 106, Culture and International Business - Kiss, Bow or Shake Hands (3)	
Business 125, Introduction to International Business (3)	
Business 150, Introduction to Information Systems and Applications (3)	
Management 135, Human Resource Management (3)	
Marketing 113, Principles of Marketing (3)	
Total	21-22

Retail Management Degree
Program code: sac.mgtre.aa

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):

Students will demonstrate an understanding of the core management functions of planning, organizing, leading, and controlling; demonstrate a thorough understanding of behavioral theories as they apply to organizations and be able to apply that theory to real-world situations; and demonstrate an ability to apply planning methods to business and organizational situations.

Complete the following courses:	Units
Accounting 101, Financial Accounting	4
Business 120, Principles of Management —OR—	3
Management 120, Principles of Management	
Business 121, Human Relations and Organizational Behavior —OR—	3
Management 121, Human Relations and Organizational Behavior	
Business 222, Business Writing —OR—	3
Management 122, Business Communications	
Computer Science 100, The Computer and Society	3
Management 135, Human Resource Management	3
Marketing 111, Principles of Retailing	3
Marketing 113, Principles of Marketing	3
Total	25

Retail Management Certificate (Transcripted)
Program code: sac.mgtrt.ca

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):

Students will demonstrate an understanding of the core management functions of planning, organizing, leading, and controlling as well as demonstrate a thorough knowledge and comprehension of the key marketing areas that affect retail organizations.

Complete the following courses:	Units
Accounting 101, Financial Accounting/	4
Business 120, Principles of Management —OR—	3
Management 120, Principles of Management	
Business 121, Human Relations and Organizational Behavior —OR—	3
Management 121, Human Relations and Organizational Behavior	
Business 222, Business Writing —OR—	3
Management 122, Business Communications	
Computer Science 100, The Computer and Society	3
Management 135, Human Resource Management	3
Marketing 111, Principles of Retailing	3
Marketing 113, Principles of Marketing	3
Total	25



Human Resource Management Certificate (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):

Students will demonstrate an understanding of the core management functions of planning, organizing, leading, and controlling; demonstrate a thorough understanding of behavioral theories as they apply to organizations and be able to apply that theory to real-world situations; and acquire a thorough knowledge and comprehension of the key legal areas that apply to managing people and organizations, along with an ability to evaluate and assess the ethical ramifications of their actions.

Major requirements for the certificate:

Course	Units
Business 105, Legal Environment of Business	3
Business 120, Principles of Management	3
—OR—	
Management 120, Principles of Management	3
Business 121, Human Relations and Organizational Behavior	3
—OR—	
Management 121, Human Relations and Organizational Behavior	3
Management 135, Human Resource Management	3
Total	12

Small Business Certificate (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):

Students will demonstrate an understanding of the core management functions of planning, organizing, leading, and controlling as well as acquire the ability to apply planning methods to small business situations.

Requirements for the certificate:

Course	Units
Accounting 035, QuickBooks	2
Business 120, Principles of Management	3
—OR—	
Management 120, Principles of Management	3
Business 170, Principles of Small Business Management	3
Marketing 113, Principles of Marketing	3

Select **ONE** of the following courses: 2-3

- Business 100, Fundamentals of Business (3)
- Entrepreneurship 105, Social Media, Bootstrapping, and Market Validation (2)
- Entrepreneurship 109, Powerful Presentations (2)

Total 13-14

Supervision Certificate (Untranscripted)

Program code: **sac.mgtsv.cert**

The Supervision 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):

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.

Course	Units
Business 120, Principles of Management	3
—OR—	
Management 120, Principles of Management	3
Business 121, Human Relations and Organizational Behavior	3
—OR—	
Management 121, Human Relations and Organizational Behavior	3
Business 222, Business Writing	3
—OR—	
Management 122, Business Communications	3
Management 125, Organizational Leadership	3
Total	12

MANUFACTURING TECHNOLOGY

The Manufacturing Technology Department offers an associate degree or certificate in Conventional Machining, CNC Programmer A, CNC Machine Set Up and Operation, and CAD/CAM. The following courses are required as a core for all of the programs:

Core Course	Units
Manufacturing Technology 111, Basic Mechanical Blueprint Reading	2
Manufacturing Technology 114, Geometric Dimensioning and Tolerancing	3
Manufacturing Technology 153, Technical Mathematics	3
Manufacturing Technology 158, Basic Machining Concepts and Operation	3
Manufacturing Technology 171, CNC Program Writing	4
Total Core Requirements	15

CNC Lathe Set Up and Operation Option Degree

Program code: **sac.mngla.as**

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):

Students will set up and operate a CNC Lathe to industrial standards.



Major requirements for the associate degree:

Required Courses:

Manufacturing Technology Core Requirements	Units
Manufacturing Technology 111, Basic Mechanical Blueprint Reading	2
Manufacturing Technology 114, Geometric Dimensioning and Tolerancing	3
Manufacturing Technology 153, Technical Mathematics	3
Manufacturing Technology 158, Basic Machining Concepts and Operation	3
Manufacturing Technology 171, CNC Program Writing	4

Specific Major Course Requirements:

Manufacturing Technology 096, Manufacturing Technology Lab	1
Manufacturing Technology 159, Advanced Turning Concepts and Operations	3
Manufacturing Technology 176, CNC Turning Center Set Up and Operation	3
Manufacturing Technology 178, Mastercam Lathe	3
Manufacturing Technology 186, Advanced CNC Lathe Programing, Set Up and Operation	3

Select nine units from the following electives: 9

- Manufacturing Technology 103, Solidworks Basic Solid Modeling (3)
- Manufacturing Technology 104, Solidworks Intermediate Solid Modeling (3)
- Manufacturing Technology 105, Solidworks Advanced Solid Modeling (3)
- Manufacturing Technology 106, Solidworks Drawings (3)
- Manufacturing Technology 128, Basic Metals Technology (3)
- Manufacturing Technology 173, Mastercam 2D Geometry, 2D Toolpaths (3)
- Manufacturing Technology 174, CNC Milling Center Set Up and Operation (3)
- Manufacturing Technology 175, Mastercam 3D Geometry, 3D Surfaces (3)
- Manufacturing Technology 177, Mastercam 3D Toolpath and CAM Applications (3)
- Manufacturing Technology 184, Advanced CNC Mill Set Up and Operation (3)
- Manufacturing Technology 194, CNC Horizontal Mill Setup and Operation (3)
- Welding 108, Oxyacetylene-Arc Welding (3)

Total 37

CNC Lathe Set Up and Operation Option Certificate (Transcribed)

Program code: sac.mngla.ca

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):

Students will set up and operate a CNC Lathe to industrial standards.

Required Courses:

Manufacturing Technology Core Requirements	Units
Manufacturing Technology 111, Basic Mechanical Blueprint Reading	2
Manufacturing Technology 114, Geometric Dimensioning and Tolerancing	3
Manufacturing Technology 153, Technical Mathematics	3
Manufacturing Technology 158, Basic Machining Concepts and Operation	3
Manufacturing Technology 171, CNC Program Writing	4

Specific Major Course Requirements:

Manufacturing Technology 096, Manufacturing Technology Lab	1
Manufacturing Technology 159, Advanced Turning Concepts and Operations	3
Manufacturing Technology 176, CNC Turning Center Set Up and Operation	3
Manufacturing Technology 178, Mastercam Lathe	3
Manufacturing Technology 186, Advanced CNC Lathe Programing, Set Up and Operation	3

Select nine units from the following electives: 9

- Manufacturing Technology 103, Solidworks Basic Solid Modeling (3)
- Manufacturing Technology 104, Solidworks Intermediate Solid Modeling (3)
- Manufacturing Technology 105, Solidworks Advanced Solid Modeling (3)
- Manufacturing Technology 106, Solidworks Drawings (3)
- Manufacturing Technology 128, Basic Metals Technology (3)
- Manufacturing Technology 173, Mastercam 2D Geometry, 2D Toolpaths (3)
- Manufacturing Technology 174, CNC Milling Center Set Up and Operation (3)
- Manufacturing Technology 175, Mastercam 3D Geometry, 3D Surfaces (3)
- Manufacturing Technology 177, Mastercam 3D Toolpath and CAM Applications (3)
- Manufacturing Technology 184, Advanced CNC Mill Set Up and Operation (3)
- Manufacturing Technology 194, CNC Horizontal Mill Setup and Operation (3)
- Welding 108, Oxyacetylene-Arc Welding (3)

Total 37



CNC Machine Set Up and Operation Option Degree

Program code: sac.mngma.as

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):

Students will set up and operate CNC Machines to industrial standards.

Major requirements for the associate degree:

Required Courses:

Manufacturing Technology Core Requirements	Units
Manufacturing Technology 111, Basic Mechanical Blueprint Reading	2
Manufacturing Technology 114, Geometric Dimensioning and Tolerancing	3
Manufacturing Technology 153, Technical Mathematics	3
Manufacturing Technology 158, Basic Machining Concepts and Operation	3
Manufacturing Technology 171, CNC Program Writing	4

Specific Major Course Requirements:

Manufacturing Technology 159, Advanced Turning Concepts and Operations	3
Manufacturing Technology 168, Advanced Milling Concepts and Operations	3
Manufacturing Technology 174, CNC Milling Center Set Up and Operation	3
Manufacturing Technology 176, CNC Turning Center Set Up and Operation	3
Manufacturing Technology 194, CNC Horizontal Mill Setup and Operation	3

Select six units from the following electives: 6

Manufacturing Technology 103, Solidworks Basic Solid Modeling (3)	
Manufacturing Technology 104, Solidworks Intermediate Solid Modeling (3)	
Manufacturing Technology 105, Solidworks Advanced Solid Modeling (3)	
Manufacturing Technology 106, Solidworks Drawings (3)	
Manufacturing Technology 128, Basic Metals Technology (3)	
Manufacturing Technology 173, Mastercam 2D Geometry, 2D Toolpaths (3)	
Manufacturing Technology 175, Mastercam 3D Geometry, 3D Surfaces (3)	
Manufacturing Technology 178, Mastercam Lathe (3)	
Manufacturing Technology 184, Advanced CNC Mill Set Up and Operation (3)	
Manufacturing Technology 186, Advanced CNC Lathe Programming, Set Up and Operation (3)	
Welding 108, Oxyacetylene-Arc Welding (3)	
Total	36

CNC Machine Set Up and Operation Option Certificate (Transcripted)

Program code: sac.mngma.ca

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):

Students will set up and operate CNC Machines to industrial standards.

Required Courses:

Manufacturing Technology Core Requirements	Units
Manufacturing Technology 111, Basic Mechanical Blueprint Reading	2
Manufacturing Technology 114, Geometric Dimensioning and Tolerancing	3
Manufacturing Technology 153, Technical Mathematics	3
Manufacturing Technology 158, Basic Machining Concepts and Operation	3
Manufacturing Technology 171, CNC Program Writing	4

Specific Major Course Requirements:

Manufacturing Technology 096, Manufacturing Technology Lab	1.5
Manufacturing Technology 159, Advanced Turning Concepts and Operations	3
Manufacturing Technology 168, Advanced Milling Concepts and Operations	3
Manufacturing Technology 174, CNC Milling Center Set Up and Operation	3
Manufacturing Technology 176, CNC Turning Center Set Up and Operation	3
Manufacturing Technology 194, CNC Horizontal Mill Setup and Operation	3

Select six units from the following electives: 6

Manufacturing Technology 103, Solidworks Basic Solid Modeling (3)	
Manufacturing Technology 106, Solidworks Drawings (3)	
Manufacturing Technology 128, Basic Metals Technology (3)	
Manufacturing Technology 173, Mastercam 2D Geometry, 2D Toolpaths (3)	
Manufacturing Technology 175, Mastercam 3D Geometry, 3D Surfaces (3)	
Manufacturing Technology 177, Mastercam 3D Toolpath and CAM Applications (3)	
Manufacturing Technology 178, Mastercam Lathe (3)	
Manufacturing Technology 184, Advanced CNC Mill Set Up and Operation (3)	
Manufacturing Technology 186, Advanced CNC Lathe Programming, Set Up and Operation (3)	
Welding 108, Oxyacetylene-Arc Welding (3)	
Total	37.5



CNC Milling Machine Set Up and Operation Option Degree
Program code: sac.mngmi.as

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):

Students will set up and operate a CNC Mill to industrial standards.

Major requirements for the associate degree:

Courses:

Manufacturing Technology Core Courses 15 units	Units
Manufacturing Technology 111, Basic Mechanical Blueprint Reading	2
Manufacturing Technology 114, Geometric Dimensioning and Tolerancing	3
Manufacturing Technology 153, Technical Mathematics	3
Manufacturing Technology 158, Basic Machining Concepts and Operation	3
Manufacturing Technology 171, CNC Program Writing	4
Specific Major Course Requirements:	
Manufacturing Technology 168, Advanced Milling Concepts and Operations	3
Manufacturing Technology 173, Mastercam 2D Geometry, 2D Toolpaths	3
Manufacturing Technology 174, CNC Milling Center Set Up and Operation	3
Manufacturing Technology 184, Advanced CNC Mill Set Up and Operation	3
Manufacturing Technology 194, CNC Horizontal Mill Setup and Operation	3
Manufacturing Technology 195, Mastercam 5 Axis Mill Toolpath and Application	3
Select six units from the following electives:	6
Manufacturing Technology 103, Solidworks Basic Solid Modeling (3)	
Manufacturing Technology 104, Solidworks Intermediate Solid Modeling (3)	
Manufacturing Technology 105, Solidworks Advanced Solid Modeling (3)	
Manufacturing Technology 106, Solidworks Drawings (3)	
Manufacturing Technology 128, Basic Metals Technology (3)	
Manufacturing Technology 159, Advanced Turning Concepts and Operations (3)	
Manufacturing Technology 175, Mastercam 3D Geometry, 3D Surfaces (3)	
Manufacturing Technology 176, CNC Turning Center Set Up and Operation (3)	
Manufacturing Technology 177, Mastercam 3D Toolpath and CAM Applications (3)	
Manufacturing Technology 178, Mastercam Lathe (3)	
Manufacturing Technology 186, Advanced CNC Lathe Programing, Set Up and Operation (3)	
Welding 108, Oxyacetylene-Arc Welding (3)	
Total	39

CNC Milling Machine Set Up and Operation Option Certificate (Transcripted)
Program code: sac.mngmi.ca

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):

Students will set up and operate a CNC Mill to industrial standards.

Required Courses:

Manufacturing Technology Core Courses 15 units	Units
Manufacturing Technology 111, Basic Mechanical Blueprint Reading	2
Manufacturing Technology 114, Geometric Dimensioning and Tolerancing	3
Manufacturing Technology 153, Technical Mathematics	3
Manufacturing Technology 158, Basic Machining Concepts and Operation	3
Manufacturing Technology 171, CNC Program Writing	4
Specific Major Course Requirements:	
Manufacturing Technology 096, Manufacturing Technology Lab	2
Manufacturing Technology 168, Advanced Milling Concepts and Operations	3
Manufacturing Technology 173, Mastercam 2D Geometry, 2D Toolpaths	3
Manufacturing Technology 174, CNC Milling Center Set Up and Operation	3
Manufacturing Technology 184, Advanced CNC Mill Set Up and Operation	3
Manufacturing Technology 194, CNC Horizontal Mill Setup and Operation	3
Manufacturing Technology 195, Mastercam 5 Axis Mill Toolpath and Application	3
Select three units from the following electives:	3
Manufacturing Technology 103, Solidworks Basic Solid Modeling (3)	
Manufacturing Technology 106, Solidworks Drawings (3)	
Manufacturing Technology 128, Basic Metals Technology (3)	
Manufacturing Technology 159, Advanced Turning Concepts and Operations (3)	
Manufacturing Technology 175, Mastercam 3D Geometry, 3D Surfaces (3)	
Manufacturing Technology 176, CNC Turning Center Set Up and Operation (3)	
Manufacturing Technology 177, Mastercam 3D Toolpath and CAM Applications (3)	
Manufacturing Technology 178, Mastercam Lathe (3)	
Manufacturing Technology 186, Advanced CNC Lathe Programing, Set Up and Operation (3)	
Welding 108, Oxyacetylene-Arc Welding (3)	
Total	38



CNC Programmer A–Mastercam Option Degree

Program code: sac.mngpa.as

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):

Students will prepare CNC programs to industrial standards.

Required Courses:

Manufacturing Technology Core Courses 15 units	Units
Manufacturing Technology 111, Basic Mechanical Blueprint Reading	2
Manufacturing Technology 114, Geometric Dimensioning and Tolerancing	3
Manufacturing Technology 153, Technical Mathematics	3
Manufacturing Technology 158, Basic Machining Concepts and Operation	3
Manufacturing Technology 171, CNC Program Writing	4
Specific Major Course Requirements:	
Manufacturing Technology 173, Mastercam-2D Geometry, 2D Toolpaths	3
Manufacturing Technology 174, CNC Milling Center Set Up and Operation 3	3
Manufacturing Technology 175, Mastercam-3D Geometry, 3D Surfaces	3
Manufacturing Technology 176, CNC Turning Center Set Up and Operation	3
Manufacturing Technology 177, Mastercam-3D Toolpath and CAM Applications	3
Manufacturing Technology 178, Mastercam Lathe	3
Manufacturing Technology 195, Mastercam 5 Axis Mill Toolpath and Application	3
Select three units from the following electives:	3
Manufacturing Technology 103, Solidworks Basic Solid Modeling (3)	
Manufacturing Technology 104, Solidworks Intermediate Solid Modeling (3)	
Manufacturing Technology 105, Solidworks Advanced Solid Modeling (3)	
Manufacturing Technology 106, Solidworks Drawings (3)	
Manufacturing Technology 128, Basic Metals Technology (3)	
Manufacturing Technology 130A, CATIA Solid Modeling I (3)	
Manufacturing Technology 130B, CATIA Solid Modeling II (3)	
Manufacturing Technology 159, Advanced Turning Concepts and Operations (3)	
Manufacturing Technology 168, Advanced Milling Concepts and Operations (3)	
Manufacturing Technology 184, Advanced CNC Mill Set Up and Operation (3)	
Manufacturing Technology 186, Advanced CNC Lathe Programing, Set Up and Operation (3)	
Total	39

CNC Programmer A-Mastercam Option Certificate (Transcripted)

Program code: sac.mngpa.ca

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):

Students will prepare CNC programs to industrial standards.

Required Courses:

Manufacturing Technology Core Courses 15 units	Units
Manufacturing Technology 111, Basic Mechanical Blueprint Reading	2
Manufacturing Technology 114, Geometric Dimensioning and Tolerancing	3
Manufacturing Technology 153, Technical Mathematics	3
Manufacturing Technology 158, Basic Machining Concepts and Operation	3
Manufacturing Technology 171, CNC Program Writing	4
Specific Major Course Requirements:	
Manufacturing Technology 096, Manufacturing Technology Lab	2
Manufacturing Technology 173, Mastercam-2D Geometry, 2D Toolpaths	3
Manufacturing Technology 174, CNC Milling Center Set Up and Operation 3	3
Manufacturing Technology 175, Mastercam-3D Geometry, 3D Surfaces	3
Manufacturing Technology 176, CNC Turning Center Set Up and Operation	3
Manufacturing Technology 177, Mastercam-3D Toolpath and CAM Applications	3
Manufacturing Technology 178, Mastercam Lathe	3
Manufacturing Technology 195, Mastercam 5 Axis Mill Toolpath and Application	3
Select three units from the following electives:	3
Manufacturing Technology 103, Solidworks Basic Solid Modeling (3)	
Manufacturing Technology 106, Solidworks Drawings (3)	
Manufacturing Technology 128, Basic Metals Technology (3)	
Manufacturing Technology 130A, CATIA Solid Modeling I (3)	
Manufacturing Technology 130B, CATIA Solid Modeling II (3)	
Manufacturing Technology 159, Advanced Turning Concepts and Operations (3)	
Manufacturing Technology 168, Advanced Milling Concepts and Operations (3)	
Manufacturing Technology 184, Advanced CNC Mill Set Up and Operation (3)	
Manufacturing Technology 186, Advanced CNC Lathe Programing, Set Up and Operation (3)	
Manufacturing Technology 194, CNC Horizontal Mill Setup and Operation (3)	
Total	41



Conventional Machining Option Degree
Program code: sac.mngcm.as

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):

Students will set up and operate conventional machines to industrial standards.

Required Courses:

Manufacturing Technology Core Courses 15 units	Units
Manufacturing Technology 111, Basic Mechanical Blueprint Reading	2
Manufacturing Technology 114, Geometric Dimensioning and Tolerancing	3
Manufacturing Technology 153, Technical Mathematics	3
Manufacturing Technology 158, Basic Machining Concepts and Operation	3
Manufacturing Technology 171, CNC Program Writing	4

Specific Major Course Requirements:

Manufacturing Technology 159, Advanced Turning Concepts and Operations	3
Manufacturing Technology 168, Advanced Milling Concepts and Operations	3
Manufacturing Technology 169, Job Shop Skills	3
Welding 108, Oxyacetylene-Arc Welding	3

Select six units from the following electives: 6

- Manufacturing Technology 103, Solidworks Basic Solid Modeling (3)
- Manufacturing Technology 106, Solidworks Drawings (3)
- Manufacturing Technology 128, Basic Metals Technology (3)
- Manufacturing Technology 173, Mastercam 2D Geometry, 2D Toolpaths (3)
- Manufacturing Technology 174, CNC Milling Center Set Up and Operation (3)
- Manufacturing Technology 176, CNC Turning Center Set Up and Operation (3)
- Manufacturing Technology 177, Mastercam 3D Toolpath and CAM Applications (3)
- Manufacturing Technology 178, Mastercam Lathe (3)
- Manufacturing Technology 184, Advanced CNC Mill Set Up and Operation (3)
- Manufacturing Technology 186, Advanced CNC Lathe Programing, Set Up and Operation (3)
- Manufacturing Technology 194, CNC Horizontal Mill Setup and Operation (3)

Total 33

Conventional Machining Option Certificate (Transcripted)

Program code: sac.mngcm.ca

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):

Students will set up and operate conventional machines to industrial standards.

Required Courses:

Manufacturing Technology Core Courses 15 units	Units
Manufacturing Technology 111, Basic Mechanical Blueprint Reading	2
Manufacturing Technology 114, Geometric Dimensioning and Tolerancing	3
Manufacturing Technology 153, Technical Mathematics	3
Manufacturing Technology 158, Basic Machining Concepts and Operation	3
Manufacturing Technology 171, CNC Program Writing	4

Specific Major Course Requirements:

Manufacturing Technology 159, Advanced Turning Concepts and Operations	3
Manufacturing Technology 168, Advanced Milling Concepts and Operations	3
Manufacturing Technology 169, Job Shop Skills	3
Welding 108, Oxyacetylene-Arc Welding	3

Select six units from the following electives: 6

- Manufacturing Technology 103, Solidworks Basic Solid Modeling (3)
- Manufacturing Technology 106, Solidworks Drawings (3)
- Manufacturing Technology 128, Basic Metals Technology (3)
- Manufacturing Technology 173, Mastercam 2D Geometry, 2D Toolpaths (3)
- Manufacturing Technology 174, CNC Milling Center Set Up and Operation (3)
- Manufacturing Technology 176, CNC Turning Center Set Up and Operation (3)
- Manufacturing Technology 177, Mastercam 3D Toolpath and CAM Applications (3)
- Manufacturing Technology 178, Mastercam Lathe (3)
- Manufacturing Technology 184, Advanced CNC Mill Set Up and Operation (3)
- Manufacturing Technology 186, Advanced CNC Lathe Programing, Set Up and Operation (3)
- Manufacturing Technology 194, CNC Horizontal Mill Setup and Operation (3)

Total 33

3D Solid Modeling Certificate (Untranscripted)
Program code: sac.mng3d.cert

The certificate curriculum is designed for students who would like to earn certification of proficiency in the use of the Solidworks 3D Solid Modeling software.

Learning Outcome(s):

Students will create 3D solid models using the Solidworks software.

**Major requirements for the certificate:**

Course	Units
Manufacturing Technology 103, Solidworks Basic Solid Modeling	3
—OR—	
Engineering 103, Solidworks Basic Solid Modeling	
Manufacturing Technology 104, Solidworks Intermediate Solid Modeling	3
—OR—	
Engineering 104, Solidworks Intermediate Solid Modeling	
Manufacturing Technology 105, Solidworks Advanced Solid Modeling	3
—OR—	
Engineering 105, Solidworks Advanced Solid Modeling	
Manufacturing Technology 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 Program code: sac.mktg.aa

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):

Students will demonstrate an understanding the four P's of Marketing and know key duties and responsibilities that come with managing the marketing process, a thorough understanding of behavioral theories as they apply to consumers and be able to apply that theory to real-world, hands-on situations, and an ability to apply marketing research methods through their course work as well as in hands-on projects.

Core Courses:	Units
Marketing 113, Principles of Marketing	3
Business 222, Business Writing	3
Business 100, Fundamentals of Business	
—OR—	
Entrepreneurship 100, Introduction to Innovation and Entrepreneurship	3

Sequence Requirements:

(All sequence courses must be completed to earn this degree)

Sales Sequence:

Marketing 120, Understanding Consumer Behavior – Getting them to Buy, Buy, Buy	1
Marketing 121, Negotiating - Getting to a Win-Win	1
Marketing 122, Sales Strategies that Build Business Relationships and Increase Sales	2

21st Century Marketing Sequence:

Marketing 123, Marketing and Technology – Trends and Cutting Edges	1
Marketing 124, Cause Marketing and Public Relations – Doing Well by Doing Good	1
Entrepreneurship 105, Social Media, Bootstrapping, and Market Validation	2

International Marketing Sequence:

Business 141, The Globalization of Marketing	1
Business 142, International Market Research and Planning	1
Business 143, Packaging, Pricing and Promoting Products/ Services for Export	1
Business 145, Channels of Distribution in International Markets	1

Advertising and Distribution Sequence:

Marketing 125, Advertising and Promotion – Get the Word Out and Keep your Customers Buying	2
Marketing 126, Distributing Products and Services – Reaching Customers Where They Shop	2

Capstone Course

Entrepreneurship 110, Capstone Business Simulations	3
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Select ONE course from the following:

Business 125, Introduction to International Business (3)	2-3
Business 127, Introduction to E-Commerce (3)	
Entrepreneurship 107, Money, Finance and Accounting for Entrepreneurs (2)	
Entrepreneurship 109, Powerful Presentations (2)	
Marketing 127, Introduction to E-Commerce (3)	
Total	30-31

Contemporary Marketing Certificate (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):

Students will demonstrate an understanding the four P's of Marketing and know key duties and responsibilities that come with managing the marketing process.



Core Courses:	Units
Marketing 113, Principles of Marketing	3
Sequence Requirements: (All sequence courses must be completed to earn this certificate)	
Sales Sequence:	
Marketing 120, Understanding Consumer Behavior – Getting them to Buy, Buy, Buy	1
Marketing 121, Negotiating - Getting to a Win-Win	1
Marketing 122, Sales Strategies that Build Business Relationships and Increase Sales	2
21st Century Marketing Sequence:	
Marketing 123, Marketing and Technology - Trends and Cutting Edges	1
Marketing 124, Cause Marketing and Public Relations – Doing Well by Doing Good	1
Entrepreneurship 105, Market Validation and Bootstrap Marketing	2
International Marketing Sequence:	
Business 141, The Globalization of Marketing	1
Business 142, International Market Research and Planning	1
Business 143, Packaging, Pricing and Promoting Products/Services for Export	1
Business 145, Channels of Distribution in International Markets	1
Advertising and Distribution Sequence:	
Marketing 125, Advertising and Promotion – Get the Word Out and Keep your Customers Buying	2
Marketing 126, Distributing Products and Services – Reaching Customers Where They Shop	2
Total	19

MATHEMATICS

Option 1 Mathematics Degree Program code: sac.math.as

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 mathematical knowledge and understanding of mathematics.

Major requirements for the associate in arts or science degree:

Course	Units
Mathematics 180, Analytic Geometry and Calculus I	4
—OR—	
Mathematics 180H, Honors Analytic Geometry and Calculus	
Mathematics 185, Analytic Geometry and Calculus II	4
Mathematics 280, Intermediate Calculus	4
Mathematics 287, Introduction to Linear Algebra and Differential Equations (5)	5
Computer Science 120, Introduction to Programming	3
—OR—	
Computer Science 112, Java Programming	
Total	20

Option 2 Associate in Science in Mathematics for Transfer Program code: sac.math.ast

The Associate in Science in Mathematics for Transfer (A.S.-T in Mathematics) prepares students to move into the CSU system 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 A.S.-T in Mathematics 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 28 for a list of additional requirements for all Associate in Arts for Transfer (A.A.-T) and Associate in Science for Transfer (A.S.-T) degrees.** Upon completion of the A.S.-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 mathematical knowledge and understanding of mathematics.

Courses	Units
Required Core (12 units)	
Mathematics 180, Analytic Geometry and Calculus I	
—OR—	
Mathematics 180H, Honors Analytic Geometry and Calculus	4
Mathematics 185, Analytic Geometry and Calculus II	4
Mathematics 280, Intermediate Calculus	4
List A: Select one course from the following: (5 units)	
Mathematics 287, Introduction to Linear Algebra and Differential Equations (5)	5
List B: Select one course from the following: (3-4 units)	
Computer Science 129, Introduction to Computer Organization (4)	
Computer Science 112, Java Programming (3)	
Computer Science 120, Introduction to Programming (3)	
Computer Science 121, Programming Concepts (3)	3-4
Computer Science 131, Data Structures Concepts (3)	
Computer Science 141, UNIX Operating System (3)	
Computer Science 213, C# Programming (3)	
Physics 217, Engineering Physics I (4)	
Total	20-21

MEDICAL ASSISTANT

Medical Assistant–Administrative/Clinical Degree Program code: sac.ma.as

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):

Students will demonstrate proficiency in speaking, reading and writing when communicating with patients and healthcare team; logically problem-solve in the healthcare setting; and become employable in an entry-level healthcare career upon completion of their Medical Assisting degree.

Medical Assistant Degree Option:

Course	Units
Medical Assistant 051A, Beginning Medical Terminology	3
Medical Assistant 051B, Advanced Medical Terminology	3
Medical Assistant 053, Medical Assistant-Administrative	3
Medical Assistant 054, Preparation of Medical Insurance Forms	3
Medical Assistant 055, Medical Assistant-Clinical Back Office	3

Electives must be 6 units selected from the following courses:

- Business Applications 179, Introduction to Microsoft Office (4)
- Business Applications 180, Advanced Microsoft Office (3)
- Business Applications 183, Microsoft Word (3)
- Business Applications 184, Advanced Microsoft Word for the Workplace (3)
- Medical Assistant 001, Cooperative Work Experience Education - Occupational (1-16)
- Medical Assistant 020, Bloodborne and Airborne Pathogen Standards (0.5)
- Medical Assistant 056, Computer Applications for the Medical Office (3)
- Medical Assistant 098, Topics (0.5-3)

Total 21

Medical Assistant-Administrative/Clinical Certificate (Transcripted) Program code: sac.ma.ca

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):

Students will demonstrate proficiency in speaking, reading and writing when communicating with patients and healthcare team; logically problem-solve in the healthcare setting; and become employable in an entry-level healthcare career upon completion of their Medical Assisting certificate.

Requirements for the Certificate of Achievement:

Course	Units
Medical Assistant 051A, Beginning Medical Terminology	3
Medical Assistant 051B, Advanced Medical Terminology	3
Medical Assistant 053, Medical Assistant-Administrative	3
Medical Assistant 054, Preparation of Medical Insurance Forms	3
Medical Assistant 055, Medical Assistant-Clinical Back Office	3
Total	15

MODERN LANGUAGES

Option 1: Modern Languages Degree Program code: sac.ml.aa

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):

Students will 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.



Course	Units
Required courses for the concentration in Spanish: 23 units	
Spanish 101, Elementary Spanish I —OR—	5
Spanish 101H, Honors Elementary Spanish I Spanish 102, Elementary Spanish II —OR—	5
Spanish 102H, Honors Elementary Spanish II Spanish 201, Intermediate Spanish I —OR—	5
Spanish 201H, Honors Intermediate Spanish I Spanish 202, Intermediate Spanish II —OR—	5
Spanish 202H, Honors Intermediate Spanish II Spanish 212, College Business Spanish —OR—	3
Spanish 213, College Spanish Composition	
Required courses for the concentration in French: 24 units	
French 101, Elementary French I	5
French 102, Elementary French II	5
French 201, Intermediate French I —OR—	5
French 201H, Honors Intermediate French I French 202, Intermediate French II —OR—	5
French 202H, Honors Intermediate French II 5	
French 211, Intermediate Conversation and Composition I	2
French 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: 10	
Chinese 101, Elementary Chinese I (5)	
Chinese 102, Elementary Chinese II (5)	
French 101, Elementary French I (5)	
French 102, Elementary French II (5)	
Japanese 101, Elementary Japanese I (5)	
Japanese 102, Elementary Japanese II (5)	
Spanish 101, Elementary Spanish I (5)	
Spanish 101H, Honors Elementary Spanish I (5)	
Spanish 102, Elementary Spanish II (5)	
Spanish 102H, Honors Elementary Spanish II (5)	
Italian 120, Elementary Italian I (5)	
Italian 121, Elementary Italian II (5)	
Vietnamese 101, Elementary Vietnamese I (5)	
Vietnamese 102, Elementary Vietnamese II (5)	

Plus three (3) units of electives from the following:	3
Spanish 195A, Advanced Conversational Spanish (3)	
Spanish 195B, Advanced Conversational Spanish (3)	
A third language	
History 101, World Civilizations to the 16th Century (3) —OR—	
History 101H, Honors World Civilizations to the 16th Century (3)	
HIST 102, World Civilizations Since the 16th Century (3) —OR—	
History 102H, Honors World Civilizations Since the 16th Century (3)	
History 124, Mexican American History in the United States (3) —OR—	
History 124H, Honors Mexican American History in the United States (3)	
History 150, Latin American Civilization to Independence (3) —OR—	
History 151, Modern Latin American Civilization (3)	
Anthropology 100, Introduction to Cultural Anthropology (3) —OR—	
Anthropology 100H, Honors Introduction to Cultural Anthropology (3)	
Anthropology 104, Language and Culture (3) —OR—	
Anthropology 104H, Honors Language and Culture (3)	
English 104, Language and Culture (3) —OR—	
English 104H, Honors Language and Culture (3)	
English 271, Survey of World Literature (3)	
English 272, Survey of World Literature (3)	
Geography, 100 World Regional Geography (3) —OR—	
Geography, 100H Honors World Regional Geography (3)	
Geography, 101 Physical Geography (3)	
Total	26

Option 2: Associate in Arts in Spanish for Transfer Program code: sac.span.aat

The Associate in Arts in Spanish for Transfer (A.A.-T in Spanish) prepares students to transfer into the CSU system. Completion of the A.A.-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 28 for a list of additional requirements for all Associate in Arts for Transfer (A.A.-T) and Associate in Science for Transfer (A.S.-T) degrees.** Upon completion of the A.A.-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 a 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):

Students will 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 Core Courses: 20 units	Units
Spanish 101, Elementary Spanish I —OR—	5
Spanish 101H, Honors Elementary Spanish I	
Spanish 102, Elementary Spanish II —OR—	5
Spanish 102H, Honors Elementary Spanish II	
Spanish 201, Intermediate Spanish I —OR—	5
Spanish 201H, Honors Intermediate Spanish I	
Spanish 202, Intermediate Spanish II —OR—	5
Spanish 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:

Ethnic Studies 101, Introduction to Ethnic Studies (3) —OR—	
Ethnic Studies 101H, Honors Introduction to Ethnic Studies (3)	
Anthropology 100, Introduction to Cultural Anthropology (3) —OR—	
Anthropology 100H, Honors Introduction to Cultural Anthropology (3)	
Sociology 100, Introduction to Sociology (3) —OR—	
Sociology 100H, Honors Introduction to Sociology (3)	
Sociology 140, Analysis of Social Trends and Problems (3) —OR—	
Sociology 140H, Honors Analysis of Social Trends and Problems (3)	
Women's Studies 101, Introduction to Women's Studies (3)	
Geography 100, World Regional Geography (3) —OR—	
Geography 100H, Honors World Regional Geography (3)	
Communication Studies 103, Introduction to Intercultural Communication (3) —OR—	
Communication Studies 103H, Honors Introduction to Intercultural Communication (3)	
Anthropology 104, Language and Culture (3) —OR—	
Anthropology 104H, Honors Language and Culture (3)	
English 104, Language and Culture (3) —OR—	
English 104H, Honors Language and Culture (3)	
History 150, Latin American Civilization to Independence (3)	
History 151, Modern Latin American Civilization (3)	
History 153, History of Mexico 3	
List A: Select one (3-4 units)	3-4
Spanish 195A, Advanced Conversational Spanish 3 —OR—	
Spanish 195B, Advanced Conversational Spanish 3	
Spanish 213, College Spanish Composition 3	
History 124, Mexican American History in the United States 3 —OR—	
History 124H, Honors Mexican American History in the United States 3	
History 105, Ancient Mesoamerican Civilization 3 —OR—	
Anthropology 105, Ancient Mesoamerican Civilization 3	
Communication Studies, 101, Introduction to Interpersonal Communication 3 —OR—	
Communication Studies, 101H Honors Introduction to Interpersonal Communication 3	
English 102H, Honors Literature and Composition 4 —OR—	
English 102H, Honors Literature and Composition 4	
English 103, Critical Thinking and Writing (4) —OR—	
English 103H, Honors Critical Thinking and Writing (4)	
Philosophy 110, Critical Thinking 4 —OR—	
Philosophy 110H, Honors Critical Thinking 4	
Total	23-24

MUSIC

Option 1

Music Degree

Program code: sac.mus.aa

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 in 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. Students will acquire competency and experience in the creation and presentation of public performances of music.
2. Students will perform proficiently (at the sophomore level) on their principal instrument in a 20-minute public recital.
3. Students will demonstrate an understanding of music theory, piano, harmony and musicianship at the final level of a traditional lower division music sequence.

Major requirements for the associate in arts degree:

Course	Units
Ensemble, 1 unit required for each of 4 semesters*	4
Applied Music, 1 course required for each of 4 semesters**	4
Music 101, Music Appreciation (3) —OR—	3
Music 101H, Honors Music Appreciation (3)	
Music 111, Basic Music Theory and Musicianship I	4
Music 112, Music Theory and Musicianship II	4
Music 114A, Musicianship	1
Music 114B, Musicianship	1
Music 142, Creating Music on the Digital Audio Workstation (1) —OR—	1-3
Music 152, Beginning Audio Production (3)	
Music 213, Theory 3	3
Music 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):

- Music 135, Concert Chorale (1)
- Music 136, Collegiate Choir (1)
- Music 137, Chamber Choir (1)
- Music 141, Instrumental Ensembles (1)
- Music 171, Concert Band (1)
- Music 174, Percussion Ensemble (1)
- Music 175, Jazz Ensemble (1)
- Music 176, Jazz Band (1)
- Music 178, Mariachi (1)
- Music 181, Chamber Orchestra (1)
- Music 189, Guitar Ensemble (1)
- Music 241, Chamber Music Ensemble (1)
- Music 271, Symphonic Band (1)



****The applied music courses may be chosen from:**

Music 115A, Applied Music (Private Instruction) (1)
Music 115B, Applied Music (Private Instruction) (1)
Music 115C, Applied Music (Private Instruction) (1)
Music 115D, Applied Music (Private Instruction) (1)
Music 121, Beginning Voice (1)
Music 122, Intermediate Voice (1)
Music 123, Advanced Voice (1)
Music 124, Advanced Vocal Production and Repertoire (1)
Music 140, Instrumental Methods for Winds and Percussion (1)
Music 161, Class Piano 1 (1)
Music 162, Class Piano 2 (1)
Music 163, Class Piano 3 (1)
Music 164A, Intermediate Piano Repertoire I (1)
Music 164B, Intermediate Piano Repertoire II (1)
Music 168, Stylistic Interpretation of Piano Repertoire (1)
Music 169, Harmonization at the Keyboard (1)
Music 173, Beginning Rhythms in Percussion and Drums (1)
Music 180A, String Methods (1)
Music 180B, Intermediate String Methods (1)
Music 185, Beginning Classical Guitar (1)
Music 186, Intermediate Classical Guitar (1)
Music 187, Advanced Classical Guitar (1)
Music 188, Advanced Classical Guitar Technique and Repertoire (1)
Music 215A, Applied Music (Advanced Private Instruction) (1)
Music 268, Intermediate Keyboard Repertoire (1)
Music 269, Intermediate Harmonization at the Keyboard (1)
Total 28-30

*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.

Option 2
Associate in Arts in Music for Transfer
Program code: sac.mus.aat

The Associate in Arts in Music for Transfer (A.A.-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 A.A.-T degree also provides guaranteed admission with junior status to the CSU system. **See page 28 for a list of additional requirements for all Associate in Arts for Transfer (A.A.-T) and Associate in Science for Transfer (A.S.-T) degrees.** Upon completion of the A.A.-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. This transfer degree prepares students for this audition and placement test process at California State University Fullerton, California State University Long Beach, and other local four-year institutions.

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 (Music 161, 162, 163, 164), one music history class (Music 101 or Music 211), and one technology class (Music 142 or Music 146) 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. Students will acquire competency and experience in the creation and presentation of public performances of music.
2. Students will perform proficiently (at the sophomore level) on their principal instrument in a 20-minute public recital.
3. Students will demonstrate an understanding of music theory, piano, harmony and musicianship at the final level of a traditional lower division music sequence.

Courses	Units
Required Core (24 units)	
Music 111, Basic Music Theory and Musicianship I	4
Music 112, Music Theory and Musicianship II	4
Music 114A, Musicianship	1
Music 114B, Musicianship	1
Music 115A, Applied Music (Private Instruction)	1
Music 115B, Applied Music (Private Instruction)	1
Music 115C, Applied Music (Private Instruction)	1
Music 115D, Applied Music (Private Instruction)	1
Music 213, Theory 3	3
Music 214, Theory 4	3
Ensembles, 1 unit required for each of 4 semesters*	4
Total	24

***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
Music 135, Concert Chorale	1
Music 137, Chamber Choir	1
Music 171, Concert Band	1
Music 175, Jazz Ensemble	1
Music 181, Chamber Orchestra	1
Music 271, Symphonic Band	1

Digital Music Production Certificate (Transcribed)
Program code: sac.musdm.ca

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. Students will 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. Students will demonstrate a working knowledge of computer assisted digital audio production including sequencing, digital recording, recording studio techniques, mixdown and synchronization to video.
3. Students will demonstrate an understanding of the business of music and current and emerging technologies for web audio design.

Requirements for the certificate:

Course	Units
Music 110, Music Fundamentals and Culture (3) —OR—	3-4
Music 111, Basic Theory and Ear, Training (4)	
Music 142, Creating Music on the Digital Audio Workstation	1
Music 143, Intermediate Techniques on the Digital Audio Workstation	1
Music 144, Projects in Electronic Music	1
Music 147, Digital Recording Studio Techniques II	2
Music 148, Digital Music Synchronization to Video	2
Music 149, The Business of Music	2
Music 152, Beginning Audio Production	3
Plus 2 units from the elective list below	2
Music 109, Reading and Making Music (2)	
Music 112, Music Theory and Musicianship II (4)	
Music 121, Beginning Voice (1)	
Music 122, Intermediate Voice (1)	
Music 123, Advanced Voice (1)	
Music 124, Advanced Vocal Production and Repertoire (1)	
Music 140, Instrumental Methods for Winds and Percussion (1)	
Music 146, Digital Recording Studio Techniques I (2)	
Music 153, Introduction to Game Audio (2)	
Music 161, Class Piano I (1)	
Music 162, Class Piano II (1)	
Music 163, Class Piano III (1)	
Music 164A, Intermediate Piano Repertoire I (1)	
Music 164B, Intermediate Piano Repertoire II (1)	
Music 173, Beginning Rhythms in Percussion and Drums (1)	
Music 185, Beginning Classical Guitar (1)	
Music 186, Intermediate Classical Guitar (1)	
Music 187, Advanced Classical Guitar (1)	
Music 188, Advanced Classical Guitar Technique and Repertoire (1)	
Music 190, Introduction to ProTools (1.5)	
Music 218, Music Notation Using Finale Software (1)	
Total	17-18

NURSING

Nursing Degree Pre-Nursing for the Bachelor's Degree in Nursing

Program code: sac.nrspr.as

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):

Students will meet the non-nursing prerequisites for transfer to a baccalaureate program.

Course	Units
Chemistry 119, Fundamentals-General and Organic (5) —OR—	4-5
Chemistry 209, Introductory Chemistry (4) —OR—	
Chemistry 210, General, Organic and Biochemistry (5) —OR—	4-5
Chemistry 219, General Chemistry (5) —OR—	
Chemistry 219H, Honors General Chemistry (5)	
Biology 239, General Human Anatomy	4
Biology 249, Human Physiology	4
Biology 229, General Microbiology	5
Psychology 100, Introduction to Psychology (3) —OR—	3
Psychology 100H, Honors Introduction to Psychology (3)	
English 101, Freshman Composition (4) —OR—	4
English 101H, Honors Freshman Composition (4)	
Total	24-25

Please check with transfer institution for additional prerequisite courses.

Please refer to Nursing-Registered Nursing A.S. Degree for the Santa Ana College Nursing Program.

Nursing-Registered Nursing Degree

Program code: sac.nrsrg.as

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.

Learning Outcome(s):

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.



Admission Prerequisites:

The following prerequisites are required for entry into the program, and Nursing-Registered 160, Introduction To Pharmacology; Nursing-Registered 161, Principles of Nursing Practice; and Nursing-Registered 161L, Principles of Nursing Practice Lab. 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):

Biology 239, General Human Anatomy	4
Biology 249, Human Physiology	4
Biology 139, Health Microbiology	4
English 101, Freshman Composition	4
—OR—	
English 101H, Honors Freshman Composition	4
Total	16

Biology 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. Third semester student applications have not been accepted since July 2011 due to length of the entry list except for St. Joseph Hospital or Home Health LVNs as of July 2015. Please refer to www.sac.edu/nursing for information.

An individual appointment with the Program Director or designee is required to determine placement. 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).

www.sac.edu/nursing). After prerequisite verification, students are placed on the entry list for the appropriate semester.

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) CPR card for Healthcare Providers or Basic Life Support Providers from the American Heart Association 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 in spring 2017 for first semester and will be phased into subsequent 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 R.N. program has three options:

Option I-Generic R.N., academic program of two years.

Applicants interested in this option must:

- Complete the admission prerequisites and
- Be admitted into the Santa Ana College RN program at the first semester of the program or be advanced-placed.

Option II-L.V.N. to R.N., 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:

- Complete the admission prerequisites,
- 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 21.1 units of LVN courses (21.5 units beginning spring 2018),
- Complete the Role Transition course with a grade of "Pass" before entering the program, and
- 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:

- Must be licensed in California as a Vocational Nurse,
- Complete the admission prerequisites required for the 30 Unit LVN Option,
- Be admitted into the Santa Ana College RN program in the beginning of the second year of the program (third semester),
- Complete the Role Transition course with a grade of "Pass" before entering the program, and
- Be placed into the third semester which is dependent upon space availability in the program.

Major nursing requirements for the Associate Degree in Nursing (prior to the Concept-Based Curriculum implementation, spring 2017):

Course	First Year	Units
First Semester		
Nursing-Registered 101, Nursing Process: Non-Critical Adults	4.5	
Nursing-Registered 101L, Nursing Actions: Non-Critical Adults	5.0	
Nursing-Registered 103, Pharmacological Concepts for Nursing	3.0	
Nursing-Registered 112, Nursing Concepts	1.5	
Second Semester		
Nursing-Registered 102, Nursing Process: Women, Parents and Children	4.0	
Nursing-Registered 102L, Nursing Actions: Women, Parents and Children	4.6	
Total		22.6

Second Year Requirements	Units
Third Semester	
Nursing-Registered 201, Nursing Process: Critical Biological and Psychosocial System Needs I	4.0
Nursing-Registered 201L, Nursing Actions: Critical Biological and Psychosocial System Needs I	5.0
Fourth Semester	
Nursing-Registered 202, Nursing Process: Critical Biological and Psychosocial System Needs II	4.0
Nursing-Registered 202L, Nursing Actions: Critical Biological and Psychosocial System Needs II	5.4
**Nursing-Registered 200, Role Transition	2.0
Total	18.4

**Nursing-Registered 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.

Major nursing requirements for the Associate Degree in Nursing for the Concept-Based Curriculum was implemented in spring 2017 for first semester and will be phased into subsequent semesters:

First Year	Units
First Semester	
Nursing-Registered 160, Introduction to Pharmacology	1
Nursing-Registered 161, Principles of Nursing Practice	2
Nursing-Registered 161L, Principles of Nursing Practice Lab	2.5
Nursing-Registered 162, Pharmacological Concepts	1.5
Nursing-Registered 163, Simple Concepts	3
Nursing-Registered 163L, Simple Concepts Lab	2.5
Second Semester	
Nursing-Registered 164, Family Health Concepts	2
Nursing-Registered 164L, Family Health Concepts Lab	2
Nursing-Registered 165, Health Illness Concepts	2.5
Nursing-Registered 165L, Health Illness Concepts Lab	2.5
Total	21.5

Second Year Requirements	Units
Third Semester	
Nursing-Registered 261, Mental Health Concepts	1.5
Nursing-Registered 261L, Mental Health Concepts Lab	1.5
Nursing-Registered 262, Acute Concepts	3
Nursing-Registered 262L, Acute Concepts Lab	3
Fourth Semester	
Nursing-Registered 263, Complex Concepts	3.5
Nursing-Registered 263L, Complex Concepts Lab	2.5
Nursing-Registered 264L, Preceptorship Lab	2.5
**Nursing-Registered 200, Role Transition	2
Total	17.5

**Nursing-Registered 200 must be taken by advanced-placed students prior to entering the Nursing Program; not required by 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 = 41 (entering prior to spring 2017)

Total nursing units required = 39 (entering spring 2017)



Course	Units
Biology 239, General Human Anatomy	4
Biology 249, Human Physiology	4
Biology 139, Health Microbiology	4
English 101, Freshman Composition —OR—	4
English 101H, Honors Freshman Composition	
Communication Studies 102, Public Speaking (at SAC) —OR—	
Communication Studies 145, Group Dynamics (at SAC) —OR—	3
Communication 101, Group Dynamics (at SCC) —OR—	
Communication 110, Public Speaking (at SCC)	
Sociology 100, Introduction to Sociology —OR—	3
Honors Sociology 100H, Honors Introduction to Sociology	
Psychology 100, Introduction to Psychology —OR—	3
Honors Psychology 100H, Honors Introduction to Psychology	
Select one course from the Associate Degree Plan A, Social and Behavioral Science category, American Institutions	3
Select one course from the Associate Degree Plan A, Humanities category	3
Total	31

Total = 72 units (prior to entering spring 2017)

Total = 70 units (entering spring 2017)

Only Biology 249 and Biology 139 are required for Option III – 30 Unit Option L.V.N. 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 the Santa Ana College Math Proficiency Exam above the intermediate algebra level or completion of Intermediate Algebra is required.

The California BRN stipulates that RN students must complete sixteen (16) units of natural, behavioral, and social sciences as well as six (6) 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; Math 219; Nursing Registered 098, 106A, 106B, 106C 198, 206A; 206B, 206C.

Challenge Credit

The student with previous nursing education or 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.

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: www.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 www.rn.ca.gov	ACEN 3343 Peachtree Rd, NE, Suite 850 Atlanta, GA 30326 (404) 975-5000 www.acenursing.org
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NUTRITION AND FOOD

Option 1 Nutrition and Dietetics Degree Program code: sac.nut.aa

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):

Students will successfully transfer into a curriculum at a four-year institution leading to a baccalaureate degree.

Required Core Courses:

Course	Units
Nutrition and Food 101, The Food System and Career Opportunities	1.5
Nutrition and Food 115, Nutrition —OR—	3
Nutrition and Food 115H, Honors Nutrition	
Biology 139, Health Microbiology (4) —OR—	4-5
Biology 229, General Microbiology (5)	
Chemistry 219, General Chemistry (5) —OR—	5
Chemistry 219H, Honors General Chemistry (5)	
Psychology 100, Introduction to Psychology (3) —OR—	3
Psychology 100H, Honors Introduction to Psychology (3)	

**List A - Select two courses** 8-9

Chemistry 229, General Chemistry and Qualitative Analysis (5)	-OR-
Chemistry 249, General, Organic and Biochemistry (5)	
Biology 239, General Human Anatomy (4)	-OR-
Biology 249, Human Physiology (4)	
Mathematics 219, Statistics and Probability (4)	-OR-
Mathematics 219H, Honors Statistics and Probability (4)	
Sociology 219, Statistics and Probability (4)	-OR-
Sociology 219H, Honors Statistics and Probability (4)	

List B - Select one course 3

Nutrition and Food 110, Food Sanitation and Safety (3)
Nutrition and Food 116, Principles of Food Preparation (3)3
Nutrition and Food 118, Cultural Foods (3)
Nutrition and Food 121, Sports Nutrition (3)

Total 27.5-30.5

Option 2

Associate in Science in Nutrition and Dietetics for Transfer

Program code: sac.nut.ast

This degree is pending approval from the Community College's Chancellor's Office. Please consult a counselor for additional information.

The Associate in Science in Nutrition and Dietetics (A.S.-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 (A.S.-T in Nutrition and Dietetics) degree also provides guaranteed admission to the CSU system, although not to a particular campus or major. **Please see page 28 for a list of additional requirements for all associate in arts for transfer (A.S.-T) and associate in science for transfer (A.S.-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.

Culinary Arts Foundation Option Certificate (Transcripted)

Program code: sac.culn.ca

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.

The program also offers core courses to be utilized as transfer courses for students pursuing a Bachelor's Degree in Food Science or Nutrition with a foods emphasis.

Learning Outcome(s):

Students will successfully transfer into a curriculum at a four-year institution leading to a baccalaureate degree.

Course	Units
Culinary Arts 110, Food Sanitation and Safety	3
Nutrition and Food 110, Food Sanitation and Safety	
Culinary Arts 120, Restaurant Management and Culinary	2
Culinary Arts 130, Advanced Culinary and Restaurant Management	3
Culinary Arts 140, Introduction to Baking & Pastry	3
Culinary Arts 299, Cooperative Work Experience Education	1-16
Total	12-27

Hospitality Foundation Certificate (Transcripted)

Program code: sac.nutho.ca

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.

Core Course	Units
Culinary Arts 100, Introduction to Culinary Arts and Hospitality	2
Culinary Arts 110, Food Sanitation and Safety	3
Nutrition and Food 110, Food Sanitation and Safety	
Culinary Arts 150, Principles of Pantry	2
Culinary Arts 160, Principles of Beverage Service	2
Culinary Arts 200, Business Practices for Culinary Arts Professionals	3
Culinary Arts 299, Cooperative Work Experience Education	1-16
Business 080, Business Mathematics	3
Kinesiology Health Education 107, Cardiopulmonary Resuscitation	2
Selected one course from the following:	3
Fashion Design Merchandising 102, Promotion and Coordination (3)	
Business 120, Principles of Management (3)	
Business 121, Human Relations and Organizational Behavior (3)	
Business 170, Principles of Small Business Management (3)	
Total	21-36

OCCUPATIONAL STUDIES

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):**

1. Demonstrate advanced mastery of OTA clinical skills, including clinical reasoning, that follow the guidelines established in the Frameworks for Occupational Therapy Practice.
2. Relate theory and research to clinical practice areas.
3. Ability to provide OTA services that meets the community needs of diverse populations demonstrating sensitivity and empathy.
4. 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 Course	Units
Psychology 210, Statistics for the Behavioral Sciences	4
Sociology 100, Introduction to Sociology	3
Philosophy 108, Ethics	3

Required upper division major courses

Occupational Studies 301, Therapeutic Approaches to the Older Adult	3
Occupational Studies 304, Movement Theory & Analysis	3
Occupational Studies 305, Advanced Pediatric Practice for the Occupational Therapy Assistant (OTA)	3
Occupational Studies 310, Community-Based Occupational Therapy Practice	2
Occupational Studies 312, Advanced Practice Areas in Occupational Therapy (OT)	3
Occupational Studies 325, Applying Research to Occupational Therapy Intervention	3
Occupational Studies 402, Neurological Principles in Human Performance	4
Occupational Studies 403, Leadership for the Occupational Therapy Assistant (OTA)	3
Occupational Studies 410, Healthcare Systems	3
Occupational Studies 412, Capstone Seminar	3

Required upper division general education courses

Mathematics 319, Quantitative Research Methods for Healthcare Professionals	4
Communication Studies 307, Health Communication	3
Sociology 401, The Sociology of Health, Illness, and Healing	3
Total	50

OCCUPATIONAL THERAPY ASSISTANT

Occupational Therapy Assistant Degree Program code: sac.ota.as

The Occupational Therapy Assistant Program provides a strong foundation in the skills and knowledge necessary for entry level occupational therapy assistant competencies. The program is accredited by the Accreditation Council for Occupational Therapy Education, (ACOTE), c/o Accreditation Department, American Occupational Therapy Association (AOTA), 4720 Montgomery Lane, Suite 200, Bethesda, MD, 20814-3449, phone number (301) 652-AOTA and web address is acoteonline.org. Graduates of the program are qualified to sit for the national certification examination, administered by the National Board of Certification for Occupational Therapy (NBCOT), 12 South Summit Avenue, Suite 100, Gaithersburg, MD 20877, phone number (301) 990-7979. 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. Occupational therapy is a discipline which 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, who 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 and fieldwork experiences to prepare the student to meet certification and employment standards.

When applying for the certification examination with the National Board of Certification in Occupational Therapy (NBCOT), applicants will be asked to answer questions related to the topic of felonies. Application for state licensure with the Board of Occupational Therapy (BOT) requires fingerprinting. For information about limitations based on felonies applicants are advised to call NBCOT and BOT (address and phone numbers above) anytime prior to the application process. Further, there is a high probability that students will be required to be fingerprinted (at the student's cost) and/or have a drug test and criminal background check at a fieldwork site. Problems with fingerprinting and background could result in a delay or failure of program completion.

These requirements are required prerequisites for Occupational Therapy 101, Foundations of Occupation and Occupational Therapy or 101L, Exploration of Occupation through Activity or Occupational Therapy 100, Medical Terminology and Documentation for Occupational Therapy.

1. Completion of the following tests are for purposes of guidance and for establishment that prerequisite skills of 101 and 101L have been met. (Required of all applicants except those that have a baccalaureate degree.):
 - a. College Test of English Placement (reading section only) with a minimum score of 25 or above. Students scoring below 25 will be referred to SAC Learning Center.
 - b. Santa Ana College Test in Math, Level III, or successful completion of Intermediate Algebra with a grade of "C" or better.
2. English 101 or 101H (4 units), or equivalent, with a grade of "C" or better.
3. Oral Communication Skill (3 units) - Satisfactory completion of Communication Studies 102, 140, 145, or equivalent, with a grade of "C" or better.
4. Biology 149, Human Anatomy and Physiology (4 units) or equivalent, with a grade of "C" or better.
5. Psychology 100 or 100H (3 units), or equivalent, with a grade of "C" or better.
6. Evidence of a physical examination and appropriate immunizations must be submitted verifying the applicants physical ability to perform the fieldwork requirement of an Occupational Therapy Assistant (O.T.A.).

Admission Procedures:

Applications to the OTA program will be accepted 1 time per year - open dates for applications will be posted on the OTA website. The application must include:

- Official transcripts showing grades for all prerequisite classes.
- Completion of 12th grade, verified by transcripts or GED score validated by appropriate testing institution. Students who have an associate's or bachelor's degree from an accredited United States institution do not need to provide high school transcripts or GED scores.
- Level III Math placement test score from Santa Ana College or completion of an Intermediate Algebra course with a grade of "C" or better.

One month before starting classes in the OTA program, students must submit documentation of the following:



- Registration with specified agency for background check
- Current health information demonstrating TB screening and required immunizations/titers
- Professional liability insurance
- Current CPR, – BLS for Healthcare Providers from the American Heart Association (this is the **only** CPR that will be accepted).

Learning Outcome(s):

1. Students graduating from the OTA program will pass the national certification test within 1 year of graduation
2. Students who enter the OTA program will complete all coursework with their respective cohort.

Major requirements for the associate degree in Occupational Therapy Assistant:

First Year	
First Semester	Units
Occupational Therapy Assistant 100, Medical Terminology and Documentation for the O.T.A.	1
Occupational Therapy Assistant 101, Foundations of Occupation and Occupational Therapy	4
Occupational Therapy Assistant 101L, Exploration of Occupation Through Activity	2
Occupational Therapy Assistant 110, Human Occupation Across Lifespan	3
Second Semester	
Occupational Therapy Assistant 102, Psychosocial Function and Dysfunction	4
Occupational Therapy Assistant 102L, Psychosocial Components of Occupation	2.5
Occupational Therapy Assistant 111, Applied Kinesiology	1
Occupational Therapy Assistant 115, Human Disease and Occupation	2
Psychology 250, Introduction to Abnormal Psychology	3
Second Year	
Third Semester	Units
Occupational Therapy Assistant 103, Physical Function and Dysfunction	4
Occupational Therapy Assistant 103L, Physical Components of Occupation	2.5
Occupational Therapy Assistant 201, Contemporary Models of Occupational Therapy Practice	4
Fourth Semester	
Occupational Therapy Assistant 202, Level II Fieldwork - Part I	6
Occupational Therapy Assistant 203, Level II Fieldwork - Part II	6
Units Required for Major	45

Required OTA Core Courses - 45 units**Graduation Requirements for the Associate Degree in Occupational Therapy Assistant.**

Math proficiency for graduation: Successful completion of the Santa Ana College Math Proficiency Exam or Intermediate Algebra

Course	Units
Total Occupational Therapy Assistant units required	45
Biology 149, Human Anatomy and Physiology	4
Communication Studies 102, Public Speaking (3)	
—OR—	
Communication Studies 140, Argumentation and Debate (3)	3
—OR—	
Communication Studies 145, Group Dynamics (3)	
English 101, Freshman Composition (4)	
—OR—	
English 101H, Honors Freshman Composition (4)	4
Psychology 100, Introduction to Psychology (3)	
—OR—	
Psychology 100H, Honors Introduction to Psychology (3)	3
Humanities per catalog	3
English 102, Literature and Composition (4)	
—OR—	
English 102H, Honors Literature and Composition (4)	
—OR—	
Philosophy 110, Critical Thinking (4)	4
—OR—	
Philosophy 110H, Honors Critical Thinking (4)	
History 118, Social and Cultural History of the United States (3)	
—OR—	
History 120, The United States to 1865 (3)	
—OR—	
History 120H, Honors The United States to 1865 (3)	
—OR—	
History 121, The United States since 1865(3)	3
—OR—	
History 121H, Honors The United States since 1865 (3)	
—OR—	
Political Science 101, Introduction to American Governments(3)	
—OR—	
Political Science 101H, Honors Introduction to American Governments (3)	
Communication Studies 103, Introduction to Intercultural Communication (3)	
—OR—	
Music 102, World Music (3)	
—OR—	
Music 102H, Honors World Music (3)	
—OR—	
Art 103, African Art History (3)	3
—OR—	
Music 103, Jazz in America (3)	
—OR—	
Art 104, Mexican and Chicano Art History (3)	
—OR—	
Art 106, Asian Art History (3)	
—OR—	
Dance 105, World Dance and Cultures (3)	
—OR—	
Theatre Arts 105, Theatre History I (3)	
Total	72

OCEANOGRAPHY

(See Geology)

OFFICE TECHNOLOGY

(See Business Applications)



PARALEGAL

Paralegal Degree

Program code: sac.para.aa

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.

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

1. Make ethical decisions in the workplace
 - a. Students will complete the Paralegal 121.
 - b. Students will incorporate ethical standards in Paralegal 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 Paralegal 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.
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.

Note: Students must complete the program within five years or repeat any legal specialty courses which were completed more than five years prior to graduation. Legal specialty courses subject to this requirement are marked with an asterisk. It is further recommended that students complete as much of their general education as possible prior to enrolling in legal specialty courses.

All courses must be passed with a C or better with the exception of Paralegal 297, which is pass/no pass.

Specific General Education Requirements for 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:

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 this requirement are marked with an asterisk(*).

Students must take Paralegal 100 or Law 100 prior to or concurrently with other legal specialty courses except Paralegal 120 and Paralegal 107.

Learning Outcome(s):

Students will learn to demonstrate ethical decision-making, understand fundamental legal concepts, and communicate effectively while exhibiting critical thinking skills.

Required Core Courses for all Students:

Course	Units
Paralegal 100, The Paralegal Profession	3
*Paralegal 101, Law Office Management	2
<hr/>	
*Paralegal 120, Computers in the Law Office	4
Paralegal 121, Ethics and Professional Responsibility	2
*Paralegal 145, Civil Litigation Overview	4
*Paralegal 146, Tort Law and Alternative Dispute Resolution	4
*Paralegal 150, Legal Transactions	5
Paralegal 246, Legal Research and Analysis	4
Paralegal 248, Advanced Research and Writing	3
*Paralegal 297, The Professional Paralegal	2
Business 101, Business Law	
—OR—	
Business 105, Legal Environment of Business	3

Students must choose a minimum of 3 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.

Legal Electives	Units
*Paralegal 105, Cooperative Work Experience Education - Occupational (1 - 4)	
Paralegal 107, Principles and Procedures in the Criminal Justice System (3)	
Paralegal 122, Elder Law (2)	
Paralegal 132, Family Law and Procedure (2)	
Paralegal 133, Workers' Compensation Law and Procedure (2)	
Paralegal 134, Probate Law and Procedure (2)	
Paralegal 135, Bankruptcy Law and Procedure (2)	
Paralegal 136, Real Property Law and Procedure (2)	
Paralegal 137, Tort and Insurance Law (2)	
Paralegal 138, Law of Business Organizations (2)	
Paralegal 139, Fundamentals of Labor Law (2)	
Paralegal 140, Immigration Law and Procedure (2)	
Paralegal 143, Civil Litigation Overview (2)	
Paralegal 144, Current Issues in Civil Litigation Discovery (2)	
Paralegal 147, International Commercial Agreements and Distribution Law (1)	
Paralegal 148, International Intellectual Property Law (1)	
Paralegal 149, The Law of Global Commerce (1)	
*Paralegal 299, Cooperative Work Experience Education (1-4)	



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 this are marked with an asterisk (*).

Students must complete the requirements for the Associate of Arts degree as outlined in the appropriate catalog. The student must demonstrate they have complied with the American Bar Association definitions of “general education.”

Paralegal Certificate (Transcripted) Program code: sac.para.ca

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.

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

1. Make ethical decisions in the workplace
 - a. Students will complete the Paralegal 121.
 - b. Students will incorporate ethical standards in Paralegal 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 Paralegal 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.
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.

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 this requirement are marked with an asterisk. It is further recommended that students complete as much of their general education as possible prior to enrolling in legal specialty courses.

All courses must be passed with a C grade or better with the exception of Paralegal 297, which is a pass/no pass.

A Paralegal Certificate is available to students who meet the 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 and who complete the Paralegal course requirements as set forth below.

The approved 18 units of general education courses 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 five years or repeat any legal specialty courses which were completed more than five years prior to graduation. Legal specialty courses subject to these requirements are marked with an asterisk (*).

Learning Outcome(s):

Students will learn to demonstrate ethical decision-making, understand fundamental legal concepts, and communicate effectively while exhibiting critical thinking skills.

Core Courses for all Students:

Course	Units
Paralegal 100, The Paralegal Profession	3
*Paralegal 101, Law Office Management	2
*Paralegal 120, Computers in the Law Office	4
Paralegal 121, Ethics and Professional Responsibility	2
*Paralegal 145, Civil Litigation Overview	4
*Paralegal 146, Tort Law and Alternative Dispute Resolution	4
*Paralegal 150, Legal Transactions	5
Paralegal 246, Legal Research and Analysis	4
Paralegal 248, Advanced Research and Writing	3
*Paralegal 297, The Professional Paralegal	2
Business 101, Business Law	— OR —
Business 105, Legal Environment of Business	3



Students must choose a minimum of 3 units from the legal elective courses. Certificate 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.

Legal Electives	Units
*Paralegal 105, Cooperative Work Experience Education - Occupational (1 - 4)	
Paralegal 107, Principles and Procedures in the Criminal Justice System (3)	
Paralegal 122, Elder Law (2)	
Paralegal 132, Family Law and Procedure (2)	
Paralegal 133, Workers' Compensation Law and Procedure (2)	
Paralegal 134, Probate Law and Procedure (2)	
Paralegal 135, Bankruptcy Law and Procedure (2)	
Paralegal 136, Real Property Law and Procedure (2)	
Paralegal 137, Tort and Insurance Law (2)	
Paralegal 138, Law of Business Organizations (2)	
Paralegal 139, Fundamentals of Labor Law (2)	
Paralegal 140, Immigration Law and Procedure (2)	
Paralegal 147, International Commercial Agreements and Distribution Law (1)	
Paralegal 148, International Intellectual Property Law (1)	
Paralegal 149, The Law of Global Commerce (1)	
*Paralegal 299, Cooperative Work Experience Education (1-4)	
Total	60

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 this are Students must complete a total of 60 semester units. The 3 additional units may be paralegal course electives or another academic college level course marked with an asterisk (*).

Students must complete a total of 60 semester units. The 3 additional units may be paralegal course electives or another academic college level course.

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 www.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

Program code: sac.phar.as

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 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 (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 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 Pharmacy Technology 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. Students will be prepared for pharmacy job interviews.
2. Students will successfully complete the Pharmacy Technician Certification Board Exam and license application process in a timely manner.

Major requirements for the associate degree and the Advanced Certificate:

Required Course	Units
Pharmacy Technology 048, Introduction to Pharmacy Technology	2
Pharmacy Technology 051, Body Systems I	3.5
Pharmacy Technology 052, Body Systems II	3.5
Pharmacy Technology 054A, Beginning Pharmacy Calculations	1
Pharmacy Technology 054B, Advanced Pharmacy Calculations	1
Pharmacy Technology 056, Pharmacy Operations	4.5
Pharmacy Technology 057, Inpatient Pharmacy Services	2
Pharmacy Technology 060, Sterile Products	4.5
Pharmacy Technology 072A, Pharmacy Technology Externship Outpatient	0.5-1.5
Pharmacy Technology 072B, Pharmacy Technology Externship Inpatient	0.5 - 2.5
Pharmacy Technology 072C, Pharmacy Technology Externship Sterile Products	0.5 - 2.5
Pharmacy Technology 056L, Pharmacy Technology Skills Lab (0.5)	
—OR—	
Pharmacy Technology 057L, Pharmacy Technology Skills Lab (0.5)	
—OR—	
Pharmacy Technology 060L, Pharmacy Technology Skills Lab (0.5)	0.5
—OR—	
Pharmacy Technology 072L-1, Pharmacy Technology Skills Lab (0.5)	
—OR—	
Pharmacy Technology 084L, Pharmacy Technology Skills Lab (0.5)	
Communication Studies 097, American English Conversational Skills (3)	
—OR—	
Communication Studies 101, Introduction to Interpersonal Communication (3)	
—OR—	
Communication Studies 101H, Honors Introduction to Interpersonal Communication (3)	3
—OR—	
Communication Studies 102, Public Speaking (3)	
Recommended electives:	
Biology 139, Health Microbiology (4)	
Biology 149, Human Anatomy and Physiology (4)	
Business Applications 038, Telephone Techniques (0.5)	
Business Applications 110, Computer Keyboarding Skills (1-2)	
Business Applications 115, Computer Keyboarding Speed and Accuracy Development (1-2)	
Chemistry 109, Chemistry in the Community (4)	
Chemistry 119, Fundamentals - General and Organic (5)	
Computer Science 100, The Computer and Society (3)	
Pharmacy Technology 080, Pharmacy Calculations Review (2)	
Pharmacy Technology 084, Sterile Products Update (4.5)	
Total	27-32

Pharmacy Technology Advanced Certificate (Transcripted)

Program code: sac.phara.ca

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 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 elab 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 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 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. Students will be prepared for pharmacy job interviews.
2. Students will successfully complete the Pharmacy Technician Certification Board Exam and license application process in a timely manner.

Required Course	Units
Pharmacy Technology 048, Introduction to Pharmacy Technology	2
Pharmacy Technology 051, Body Systems I	3.5
Pharmacy Technology 052, Body Systems II	3.5
Pharmacy Technology 054A, Beginning Pharmacy Calculations	1
Pharmacy Technology 054B, Advanced Pharmacy Calculations	1
Pharmacy Technology 056, Pharmacy Operations	4.5
Pharmacy Technology 057, Inpatient Pharmacy Services	2
Pharmacy Technology 060, Sterile Products	4.5
Pharmacy Technology 072A, Pharmacy Technology Externship Outpatient	0.5-1.5
Pharmacy Technology 072B, Pharmacy Technology Externship Inpatient	0.5 - 2.5
Pharmacy Technology 072C, Pharmacy Technology Externship Sterile Products	0.5 - 2.5
Pharmacy Technology 056L, Pharmacy Technology Skills Lab (0.5)	
—OR—	
Pharmacy Technology 057L, Pharmacy Technology Skills Lab (0.5)	
—OR—	
Pharmacy Technology 060L, Pharmacy Technology Skills Lab (0.5)	0.5
—OR—	
Pharmacy Technology 072L-1, Pharmacy Technology Skills Lab (0.5)	
—OR—	
Pharmacy Technology 084L, Pharmacy Technology Skills Lab (0.5)	
Communication Studies 097, American English Conversational Skills (3)	3
—OR—	
Communication Studies 101, Introduction to Interpersonal Communication (3)	
—OR—	
Communication Studies 101H, Honors Introduction to Interpersonal Communication (3)	
—OR—	
Communication Studies 102, Public Speaking (3)	

Recommended electives:

- Biology 139, Health Microbiology (4)
- Biology 149, Human Anatomy and Physiology (4)
- Business Applications 110B, Computer Keyboarding Skills II (1)
- Business Applications 115A, Computer Keyboarding Speed and Accuracy Development I (1)
- Chemistry 109, Chemistry in the Community (4)
- Chemistry 119, Fundamentals - General and Organic (5)
- Computer Science 100, The Computer and Society (3)
- Pharmacy Technology 080, Pharmacy Calculations Review (2)
- Pharmacy Technology 084, Sterile Products Update (4.5)

Total 27-32

Pharmacy Technology Basic Certificate (Transcribed)

Program code: sac.pharb.ca

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 externship placement. 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.

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. Students will be prepared for pharmacy job interviews.
2. Students will successfully complete the Pharmacy Technician Certification Board Exam and license application process in a timely manner.

Major requirements for the Basic Certificate option:

Required Course	Units
Pharmacy Technology 048, Introduction to Pharmacy Technology	2
Pharmacy Technology 051, Body Systems I	3.5
Pharmacy Technology 052, Body Systems II	3.5
Pharmacy Technology 054A, Beginning Pharmacy Calculations	1
Pharmacy Technology 054B, Advanced Pharmacy Calculations	1
Pharmacy Technology 056, Pharmacy Operations	4.5
Pharmacy Technology 072A, Pharmacy Technology Externship Outpatient	0.5-1.5
Communication Studies 101, Introduction to Interpersonal Communication (3)	
—OR—	
Communication Studies 102, Public Speaking (3)	
—OR—	
Communication Studies 097, American English Conversational Skills (3)	3
—OR—	
Communication Studies 101H, Honors Introduction to Interpersonal Communication (3)	

**Recommended electives:**

Biology 139, Health Microbiology (4)	
Business Applications 038, Telephone Techniques (0.5)	
Business Applications 110, Computer Keyboarding Skills (1-2)	
Business Applications 115, Computer Keyboarding Speed and Accuracy Development (1-2)	
Chemistry 109, Chemistry in the Community (4)	
Chemistry 119, Fundamentals - General and Organic (5)	
Computer Science 100, The Computer and Society (3)	
Pharmacy Technology 080, Pharmacy Calculations Review (2)	
Pharmacy Technology 056L, Pharmacy Technology Skills Lab (0.5)	
—OR—	
Pharmacy Technology 072L-1, Pharmacy Technology Skills Lab (0.5-2)	
Total	20

PHILOSOPHY**Option 1****Philosophy Degree****Program code: sac.phil.aa**

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):

Students will develop strong skills in critical thinking, logical analysis, and analytical writing, and will understand the core historical and contemporary ideas central to the discipline.

Major requirements for the associate in arts degree:

Course	Units
Philosophy 106, Introduction to Philosophy	3
—OR—	
Philosophy 106H, Honors Introduction to Philosophy	
Philosophy 108, Ethics	3
Philosophy 110, Critical Thinking	
—OR—	
Philosophy 110H, Honors Critical Thinking	4
—OR—	
Philosophy 111, Introductory Logic	
Philosophy 112, World Religions	3
Philosophy 118, History of Philosophy	3
Electives	6
Total	22

A minimum of six elective units to be selected from the following:
 Art 101, 102; English 233ABCD, 271, 272; History 101 or 101H, 102 or 102H, 160; Interdisciplinary Studies 121; Music 101 or 101H; Psychology 100 or 100H; Theatre Arts 233ABCD.

Option 2**Associate in Arts in Philosophy for Transfer****Program code: sac.phil.aat**

The Associate in Arts in Philosophy for Transfer (A.A.-T in Philosophy) 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 A.A.-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 28 for a list of additional requirements for all Associate in Arts for Transfer (A.A.-T) and Associate in Science for Transfer (A.S.-T) degrees.** Upon completion of the A.A.-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):

Students will develop strong skills in critical thinking, logical analysis, and analytical writing, and will understand the core historical and contemporary ideas central to the discipline.

Course	Units
Required Core: Select Two (7 units)	
Philosophy 111, Introductory Logic	4
Philosophy 106, Introduction to Philosophy (3)	
—OR—	
Philosophy 106H, Honors Introduction to Philosophy (3)	3
—OR—	
Philosophy 108, Ethics (3)	
List A: Select one (3-4 units)	
Any course from Required Core not already used (3)	
—OR—	
Philosophy 110, Critical Thinking (4)	
—OR—	
Philosophy 110H, Honors Critical Thinking (4)	3-4
—OR—	
Philosophy 112, World Religions (3)	
—OR—	
Philosophy 118, History of Philosophy (3)	
List B: Select two (6-7 units)	
Any course from List A not already used	6-7
List C: Select one (3-4 units)	
Any course from List A or B not already used (3-4)	
—OR—	
History 101, World Civilizations to the 16th Century (3)	
—OR—	
History 101H, Honors World Civilizations to the 16th Century (3)	3-4
—OR—	
History 102, World Civilizations Since the 16th Century (3)	
—OR—	
History 102H, Honors World Civilizations Since the 16th Century (3)	
Total	19-21

PHOTOGRAPHY**Photography Degree****Program code: sac.phot.aa**

The associate in 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 free lance photographer. Please consult a SAC Counselor for information about course requirements for particular four-year institutions.



Major requirements for the associate in arts degree.

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 general knowledge of the monuments, movements and principal artists of major art periods of the past and contemporary thinking on art, design and photography.

Core Courses	Units
Art 102, Western Art History (3) —OR— Photography 150, History of Photography (3)	3
Art 110, Two-Dimensional Design	3
Art 124, Gallery Production	2
Photography 009, Photography Lab	0.5
Photography 180, Beginning Photography	3
Photography 185A, Landscape Photography	3
Photography 191, Commercial Studio Practices	3
Photography 194, Digital Workflow	3
Photography 196, Introduction to Commercial Photography	3
Photography 291, Wedding and Quinceanera Photography	3
Photography 292, Portrait Photography	3
Plus 3 units from the following courses:	3
Art 162, Digital Design with Photoshop-I (3)	
Art 195, Introduction to Digital Media Arts (3)	
Photography 185B, Landscape Photography (3)	
Photography 197, Intermediate Commercial Photography (3)	
Photography 294, Color Photographic Expression (3)	
Total	32.5

Commercial Photography Certificate (Transcripted) Program code: sac.phot.ca

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. 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 necessary in digital photography, including wedding, quinceanera and commercial, to begin a career as a production printer, studio photographer or freelance photographer.

Major requirements for the certificate:

Course	Units
Photography 009, Photography Lab	1
Photography 180, Beginning Photography	3
Photography 191, Commercial Studio Practices	3
Photography 194, Digital Workflow	3
Photography 196, Commercial Photography	3
Photography 291, Wedding and Quinceanera Photography	3

Electives must be chosen from the following courses:

Art 124, Gallery Production (2)	
Art 129, Graphic Design Concepts for the Web (3)	
Art 162, Digital Design with Photoshop-I (3)	6
Business 170, Principles of Small Business Management (3)	
Photography 150, History of Photography (3)	
Photography 292, Portrait Photography (3)	
Total	22

PHYSICS

Option 1

Physics Degree

Program code: sac.phys.as

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):

Students will develop communication via coherent and succinct scientific writing, creative and critical thought for problem solving, and technological competence in the use of computerized sensors, software, and programming for scientific purposes.

Major requirements for the associate in arts or science degree:

Course	Units
Physics 217, Engineering Physics I	4
Physics 227, Engineering Physics II	4
Physics 237, Engineering Physics III	4
Mathematics 180, Analytical Geometry and Calculus I	4
Mathematics 185, Analytical Geometry and Calculus II	4
Mathematics 280, Intermediate Calculus	4
Total	24

Chemistry courses may be required for upper division standing (check with a counselor and the Transfer Center).

Option 2

The Associate in Science in Physics for Transfer

Program code: sac.phys.ast

The Associate in Science in Physics for Transfer (A.S.-T) prepares students to transfer into the CSU system leading to a baccalaureate degree in Physics. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the A.S.-T degree also provides guaranteed admission to the CSU system, although not to a particular campus or major. **See page 28 for a list of additional requirements for all associate in arts for transfer (A.A.-T) and associate in science for transfer (A.S.-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):**

Students will develop communication via coherent and succinct scientific writing, creative and critical thought for problem solving, and technological competence in the use of computerized sensors, software, and programming for scientific purposes.

Course	Units
Physics 217, Engineering Physics I	4
Physics 227, Engineering Physics II	4
Physics 237, Engineering Physics III	4
Mathematics 180, Analytic Geometry and Calculus I —OR—	4
Mathematics 180H, Honors Analytic Geometry and Calculus	
Mathematics 185, Analytic Geometry and Calculus II	4
Mathematics 280, Intermediate Calculus	4
Total	24

PLANT BIOLOGY

(See *Biological Science Degree* for major requirements and counseling for transfer requirements.)

POLITICAL SCIENCE**Option 1****Political Science Degree**

Program code: sac.polt.aa

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):

Students will demonstrate an understanding of American and international political institutions.

Required Courses:	Units
Political Science 101, Introduction to Government —OR—	3
Political Science 101H, Honors Introduction to Government	
9 units from 3 courses below:	9
Political Science 201, Introduction to Comparative Politics (3)	
Political Science 220, International Politics (3)	
Political Science 235, Identity Politics (3)	
Political Science 200, American Political Thought (3) —OR—	
Political Science 200H, Honors American Political Thought (3)	
4 units from courses below:	4
English 101, Freshman Composition —OR—	
English 101H, Honors Freshman Composition (4)	
Elective 9 units. Select electives from the following list.	9
Anthropology 100, Introduction to Cultural Anthropology (3) —OR—	
Anthropology 100H, Honors Introduction to Cultural Anthropology (3)	
Computer Science 100, The Computer and Society (3)	
Economics 120, Principles/Macro (3)	
Foreign Language 101	
Foreign Language 102 —OR—	
Honors Foreign Language 102	
Foreign Language 202 —OR—	
Foreign Language 202H	
History 101, World Civilizations to the 16th Century (3) —OR—	
History 101H, Honors World Civilizations to the 16th Century (3)	

History 120, The United States to 1865 (3) —OR—	
History 120H, Honors The United States to 1865 (3)	
History 150, Latin American Civilization to Independence (3)	
History 151, Modern Latin American Civilization (3)	
History 153, History of Mexico (3)	
Interdisciplinary Studies 117H, Honors Introduction to Global Studies (3)	
Philosophy 106, Introduction to Philosophy (3) —OR—	
Philosophy 106H, Honors Introduction to Philosophy (3)	
Psychology 100, Introduction to Psychology (3) —OR—	
Psychology 100H, Honors Introduction to Psychology (3)	
Sociology 100, Introduction to Sociology (3) —OR—	
Sociology 100H, Honors Introduction to Sociology (3)	
Communication Studies 140, Argumentation and Debate (3)	
Total	25

Option 2**Associate in Arts in Political Science for Transfer**

Program code: sac.polt.aat

The Associate in Arts in Political Science for Transfer (A.A.-T) prepares students to transfer into the CSU system. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the A.A.-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 28 for a list of additional requirements for all Associate in Arts for Transfer (A.A.-T) and Associate in Science for Transfer (A.S.-T) degrees.** Upon completion of the A.A.-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.

Learning Outcome(s):

Students will demonstrate an understanding of American and international political institutions.

Required Core Courses:	Units
Political Science 101, Introduction to Government —OR—	3
Political Science 101H, Honors Introduction to Government	
List A – Select 3 courses:	9-10
Political Science 200, American Political Thought (3) —OR—	
Political Science 200H, Honors American Political Thought (3)	
Political Science 201, Introduction to Comparative Politics (3)	
Political Science 220, International Politics (3)	
Mathematics 219, Statistics and Probability (4) —OR—	
Mathematics 219H, Honors Statistics and Probability (4) —OR—	
Social Science 219, Statistics and Probability (4) —OR—	
Social Science 219H, Honors Statistics and Probability (4)	
List B – Select 2 courses:	6-7
(Choose from any course not selected above and/or a below course.)	
Political Science 235, Identity Politics (3)	
Economics 120, Principles of Macro Economics (3)	
Economics 121, Principles of Micro Economics (3)	
Total	18-20



PSYCHOLOGY

Option 1

Psychology Degree

Program code: sac.psyc.aa

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.

Learning Outcome(s):

Students will be able to employ the scientific method of inquiry to address psychological questions, possess an understanding of the relationship between biology and psychological processes, demonstrate an understanding of the major theoretical perspective in the field of psychology, and be able to communicate their ability to think critically through problem solving and decision making, using the standards and conventions of the American Psychological Association.

Major requirements for the associate in arts degree:

Course	Units
Psychology 100, Introduction to Psychology —OR—	3
Psychology 100H, Honors Introduction to Psychology	
Psychology 210, Statistics for the Behavioral Sciences —OR—	4
Mathematics 219, Statistics and Probability —OR—	
Mathematics 219H, Honors Statistics and Probability —OR—	4
Social Science 219, Statistics and Probability —OR—	
Social Science 219H, Honors Statistics and Probability	3
Psychology 219, Introduction to Research Methods in Psychology	
Two courses from the following psychology electives:	6
Psychology 140, Introduction to Psychology of Adulthood and Aging (3)	
Psychology 157, Introduction to Child Psychology (3)	
Psychology 170, Multicultural Psychology (3)	
Psychology 200, Introduction to Biological Psychology (3)	
Psychology 230, Psychology and Effective Behavior (3)	
Psychology 240, Introduction to Social Psychology (3)	
Psychology 250, Introduction to Abnormal Psychology (3)	
One additional elective from the psychology courses above or from the following:	3-5
Anthropology 100, Introduction to Cultural Anthropology (3) —OR—	
Anthropology 100H, Honors Introduction to Cultural Anthropology (3)	
Anthropology 101, Introduction to Physical Anthropology (3)	
Biology 109, Fundamentals of Biology (3) —OR—	
Biology 109H, Honors Fundamentals of Biology (3)	
Biology 149, Human Anatomy and Physiology (4)	
Chemistry 109, Chemistry in the Community (4)	
Chemistry 119, Fundamentals – General and Organic (4)	
Computer Science 100, The Computer and Society (5)	
Interdisciplinary Studies 155, Human Sexuality (3)	
Kinesiology Professional 125, Sport Psychology (3)	
Philosophy 110, Critical Thinking (4) —OR—	
Philosophy 110H, Honors Critical Thinking (4)	
Philosophy 111, Introductory Logic (4)	
Sociology 100, Introduction to Sociology (3) —OR—	
Sociology 100H, Honors Introduction to Sociology (3)	
Total	12-16

Courses recommended for upper division standing (check with a counselor and the transfer school to verify current courses).

Option 2

Associate in Arts in Psychology for Transfer

Program code: sac.psyc.aat

The Associate in Arts in Psychology for Transfer (A.A.-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 A.A.-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. **See page 28 for a list of additional requirements for all Associate in Arts for Transfer (A.A.-T) and Associate in Science for Transfer (A.S.-T) degrees.** Upon completion of the A.A.-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.

Learning Outcome(s):

Students will be able to employ the scientific method of inquiry to address psychological questions, possess an understanding of the relationship between biology and psychological processes, demonstrate an understanding of the major theoretical perspective in the field of psychology, and be able to communicate their ability to think critically through problem solving and decision making, using the standards and conventions of the American Psychological Association.

Course	Units
Core Courses (10 Units)	
Mathematics 219, Statistics and Probability (4) —OR—	4
Mathematics 219H, Honors Statistics and Probability (4)	
Psychology 210, Statistics for the Behavioral Sciences (4) —OR—	
Social Science 219, Statistics and Probability —OR—	
Social Science 219H, Honors Statistics and Probability	3
Psychology 100, Introduction to Psychology —OR—	
Psychology 100H, Honors Introduction to Psychology	3
Psychology 219, Introduction to Research Methods in Psychology	
List A – select one course (3 units)	3
Biology 109, Fundamentals of Biology (3) —OR—	
Biology 109H, Honors Fundamentals of Biology (3)	
Psychology 200, Introduction to Biological Psychology (3)	
List B – select one course (3-4 units)	3-4
Any list A course not used above	
English 101, Freshman Composition (4) —OR—	
English 101H, Honors Freshman Composition (4)	

**List C – select one course (3-5 units)**

3-5

- Any course not selected above
- Anthropology 100, Introduction to Cultural Anthropology (3)
—OR—
- Anthropology 100H, Honors Introduction to Cultural Anthropology (3)
- Anthropology 101, Introduction to Physical Anthropology (3)
- Anthropology 104, Language and Culture (3)
—OR—
- Anthropology 104H, Honors Language and Culture (3)
- Biology 177, Human Genetics (3)
- Biology 211, Cellular and Molecular Biology (5)
- Biology 239, General Human Anatomy (4)
- Chemistry 119, Fundamentals - General and Organic (5)
- Chemistry 209, Introductory Chemistry (4)
- Chemistry 219, General Chemistry (5)
—OR—
- Chemistry 219H, Honors General Chemistry (5)
- Child Development 107, Child Growth and Development (DS1) (3)
- English 102, Literature and Composition (4)
—OR—
- English 102H, Honors Literature and Composition (4)
- English 103, Critical Thinking and Writing (4)
—OR—
- English 103H, Honors Critical Thinking and Writing (4)
- English 104, Language and Culture (3)
—OR—
- English 104H, Honors Language and Culture (3)
- Mathematics 105, Mathematics for Liberal Arts Students (3)
- Mathematics 140, College Algebra (4)
- Mathematics 145, Finite Mathematics (4)
- Mathematics 150, Calculus for Biological, Management and Social Sciences (4)
- Mathematics 160, Trigonometry (4)
- Mathematics 170, Pre-Calculus Mathematics (4)
- Mathematics 180, Analytic Geometry and Calculus I (4)
—OR—
- Mathematics 180H, Honors Analytic Geometry and Calculus (4)
- Physical Science 115, Concepts in Physical Sciences for Educators (4)
- Physics 109, Survey of General Physics (4)
- Physics 210, Principles of Physics I (4)
- Physics 217, Engineering Physics I (4)
- Physics 279, College Physics I (4)
- Psychology 140, Introduction to Psychology of Adulthood and Aging (3)
- Psychology 157, Introduction to Child Psychology (3)
- Psychology 170, Multicultural Psychology (3)
- Psychology 230, Psychology and Effective Behavior (3)
- Psychology 240, Introduction to Social Psychology (3)
- Psychology 250, Introduction to Abnormal Psychology (3)
- Sociology 100, Introduction to Sociology (3)
—OR—
- Sociology 100H, Honors Introduction to Sociology (3)
- Sociology 140, Analysis of Social Trends and Problems (3)
—OR—
- Sociology 140H, Honors Analysis of Social Trends and Problems (3)
- Sociology 240, Introduction to Social Psychology 3

Total 19-22

Changes to this degree are pending approval from the Community College Chancellor's Office. Please consult a counselor for additional information.

SCIENCE**Science Degree****Program code: sac.sci.as**

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):

Students will understand the influence that the acquisition of scientific knowledge has on the development of the world's civilizations.

Requirements for the associate in science degree:

Core Courses	Units
Mathematics 180, Analytic Geometry and Calculus I —OR—	4
Mathematics 180H, Honors Analytic Geometry and Calculus	
Chemistry 219, General Chemistry —OR—	5
Chemistry 219H, Honors General Chemistry	
Total	9

General Science Emphasis:

Course	Units
Science Core Required Courses	9
Mathematics 185, Analytic Geometry and Calculus II	4
Electives ^A	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.

Astronomy Emphasis:

Course	Units
Science Core Required Courses ^B	9
Astronomy 109, Introduction to the Solar System	3
Astronomy 110, Introduction to Stars and Galaxies —OR—	3
Astronomy 110H, Honors Introduction to Stars and Galaxies	
Astronomy 140, Astronomy Laboratory	1
Mathematics 185, Analytic Geometry and Calculus II	4
Electives ^{A,C}	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.

^B Astronomy Emphasis Students may substitute Physics 217 for Chemistry 219.

^C Completion of Physics 217/227/237 and/or Mathematics 280 highly recommended.



Biology Emphasis:

Course	Units
Science Core Required Courses ^D	9
Biology 211, Cellular and Molecular Biology	5
Biology 212, Animal Diversity and Ecology —OR—	5
Biology 214, Plant Diversity and Evolution	
Electives ^{A,E}	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:

Course	Units
Science Core Required Courses	9
Chemistry 229, General Chemistry and Qualitative Analysis	5
Mathematics 185, Analytic Geometry and Calculus II	4
Electives ^{A,F}	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 Mathematics 185 highly recommended for Chemistry Emphasis Students.

Geology Emphasis:

Course	Units
Science Core Required Courses	9
Geology 101, Introduction to Geology	3
Geology 101L, Introduction to Geology Laboratory	1
Geology 201, Introduction to Historical Geology	4
Electives ^{A,G}	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:

Course	Units
Science Core Required Courses****	9
Physics 217, Engineering Physics I	4
Physics 227, Engineering Physics II —OR—	4
Physics 237, Engineering Physics III	
Mathematics 185, Analytic Geometry and Calculus II	4
Electives****	5
Total	26

****Physics Emphasis Students may substitute Mathematics 280 for Chemistry 219.

****Completion of Physics 217/227/237 and/or Mathematics 280 highly recommended for Physics Emphasis Students.

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.

SECRETARIAL

(See *Business Applications and Technology*)

SIGN LANGUAGE

(See *American Sign Language*)

SOCIAL SCIENCE

Social Science Degree

Program code: **sac.socs.aa**

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. Some employment opportunities are available in the teaching of social science.

Learning Outcome(s):

Students will evaluate how individuals, societies, and social subgroups operate.

Major requirements for the associate in arts degree:

Required Courses	Units
History 101, World Civilizations to the 16th Century —OR—	
History 101H, Honors World Civilizations to the 16th Century —OR—	3
History 102, World Civilizations Since the 16th Century —OR—	
History 102H, Honors World Civilizations Since the 16th Century	
History 120, United States to 1865 —OR—	
History 120H, Honors United States to 1865 —OR—	3
History 121, United States Since 1865 —OR—	
History 121H, Honors United States Since 1865	
Anthropology 100, Cultural Anthropology —OR—	
Anthropology 100H, Honors Cultural Anthropology —OR—	3
Sociology 100, Introduction to Sociology —OR—	
Sociology 100H, Honors Introduction to Sociology	
Economics 120, Principles/Macro	3
Political Science 101, Introduction to Government —OR—	3
Political Science 101H, Honors Introduction to Government	
Psychology 100, Introduction to Psychology —OR—	3
Psychology 100H, Honors Introduction to Psychology	
Select a minimum of 6 units from the recommended electives below: —OR—	6
Total	24

Recommended electives: Anthropology 101, 103, 125; Computer Science 100; Geography 100 or 100H, History 125, 127, 181; Interdisciplinary Studies 117H; Political Science 200 or 200H, 201, 220.



SOCIOLOGY

Option 1

Sociology Degree

Program code: sac.soc.aa

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 in arts degree prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree.

Learning Outcome(s):

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.

Major requirements for the associate in arts degree:

Required courses	Units
Anthropology 100, Introduction to Cultural Anthropology —OR—	3
Anthropology 100H, Honors Introduction to Cultural Anthropology	
Psychology 100, Introduction to Psychology —OR—	3
Psychology 100H, Honors Introduction to Psychology	
Sociology 100, Introduction to Sociology —OR—	3
Sociology 100H, Honors Introduction to Sociology	
Sociology 140, Analysis of Social Trends and Problems —OR—	3
Sociology 140H, Honors Analysis of Social Trends and Problems	
Selected electives (two courses from the following):	6
Anthropology 101, Introduction to Physical Anthropology (3)	
*Anthropology 104, Language and Culture (3) —OR—	
*Anthropology 104H, Honors Language and Culture (3) —OR—	
*English 104, Language and Culture (3) —OR—	
*English 104H, Honors Language and Culture (3)	
Anthropology 105/History 105, Ancient Mesoamerican Civilization(5)	
Anthropology 125/History 125, Native Americans in the U.S. (3)	
Mathematics 219, Statistics and Probability (4) —OR—	
Mathematics 219H, Honors Statistics and Probability (4) —OR—	
Social Science 219, Statistics and Probability (4) —OR—	
Social Science 219H, Honors Statistics and Probability (4)	
Psychology 140, Introduction to Psychology of Adulthood and Aging	
Psychology 157, Introduction to Child Psychology (3)	
Psychology 240, Introduction to Social Psychology (3) —OR—	
Sociology 240, Introduction to Social Psychology (3)	
Sociology 112, Relationships, Marriage and Family Dynamics (3)	
Total	18

Option 2

Associate in Arts in Sociology for Transfer

Program code: sac.soc.aat

The Associate in Arts in Sociology for Transfer (A.A.-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 A.A.-T degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU campus, Fullerton, in one of seven different Sociology

majors. See page 28 for a list of additional requirements for all Associate in Arts for Transfer (A.A.-T) and Associate in Science for Transfer (A.S.-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):

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.

Course	Units
Required Core (includes List A) (10 units)	
Sociology 100, Introduction to Sociology —OR—	3
Sociology 100H, Honors Introduction to Sociology	
List A – two courses	
Sociology 140, Analysis of Social Trends and Problems OR —OR—	3
Sociology 140H, Honors Analysis of Social Trends and Problems	
Mathematics 219, Statistics and Probability —OR—	4
Mathematics 219H, Honors Statistics and Probability —OR—	
Social Science 219, Statistics and Probability —OR—	4
Social Science 219H, Honors Statistics and Probability	
List B – two courses (6 units)	
Sociology 112, Relationships, Marriages, and Family Dynamics	3
Sociology 240, Introduction to Social Psychology —OR—	3
Psychology 240, Introduction to Social Psychology	
List C – select one course (3-4 units)	
Anthropology 100, Introduction to Cultural Anthropology —OR—	3
Anthropology 100H, Honors Introduction to Cultural Anthropology	
English 101H, Honors Freshman Composition	4
English 102, Literature and Composition	4
English 103, Critical Thinking and Writing —OR—	4
English 103H, Honors Critical Thinking and Writing	
Geography 102, Cultural Geography	3
Philosophy 110, Critical Thinking —OR—	4
Philosophy 110H, Honors Critical Thinking	
Psychology 100, Introduction to Psychology —OR—	3
Psychology 100H, Honors Introduction to Psychology	
OR another introductory course in the social sciences chosen from: Asian American Studies 101; Biology 200; Black Studies 101; Chicano Studies 101; Child Development 107; Counseling 150; Criminal Justice 101; Economics 120, 121; Environmental Studies 200; Ethnic Studies 101, 101H; Geography 100, 100H, History 118, 120, 120H, 121, 121H, 122, 123, 124, 124H, 127, 146; Political Science 101, 101H; Psychology 157; Science 200; Television/Video Communications 105, 105H; Women's Studies 101	
Total Units for the Major	19-20



SPEECH-LANGUAGE PATHOLOGY ASSISTANT

Speech-Language Pathology Assistant Degree Program code: sac.slpa.as

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 (at the student's cost) and/or have a drug test and criminal background check at a fieldwork site. 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 and Audiology and 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 and Audiology and 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 anytime 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 and Audiology and 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 pass the State of California registration requirements for Speech-Language Pathology Assistants.

Course	Units
Speech-Language Pathology Assistant 118, Introduction to Speech-Language Pathology Assisting	1
Speech-Language Pathology Assistant 119, Speech, Language and Hearing Development Across the Lifespan	3
Communication Studies 151, Voice and Diction for Effective Communication	3
Child Development 107, Child Growth and Development (DS1) —OR—	3
Psychology 157, Introduction to Child Psychology	

Child Development 108, Observation and Assessment for Early Learning and Development	3
Speech-Language Pathology Assistant 120, Speech-Language Pathology Clinical Management and Procedures	2
Speech-Language Pathology Assistant 150, Observation of Speech-Language Pathology Clinical Practices	0.5
Speech-Language Pathology Assistant 160, Introduction to Communicative Disorders and Treatment	3
Communication Studies 170, Introduction to Phonetics	3
Speech-Language Pathology Assistant 180, Speech-Language Pathology Screening Processes and Intervention Procedures	3
Speech-Language Pathology Assistant 190, Clinical Fieldwork I	2
Speech-Language Pathology Assistant 200, Adult and Geriatric Communication Disorders	3
Child Development 205, Introduction to Children with Special Needs	3
Speech-Language Pathology Assistant 250, Speech-Language Pathology Assistant Clinical Fieldwork II	2
American Sign Language 110, American Sign Language I	4
Total	37.5

General Education Requirements:

Biology 109, Fundamentals of Biology —OR—	3
Biology 109H, Honors Fundamentals of Biology	
Biology 109L, Fundamentals of Biology Laboratory —OR—	1
Biology 149, Anatomy and Physiology —OR—	4
Biology 239, General Human Anatomy	
English 101, Freshman Composition —OR—	4
English 101H, Honors Freshman Composition	
Psychology 100, Introduction to Psychology —OR—	3
Psychology 100H, Honors Introduction to Psychology	
Communication Studies 101, Introduction to Interpersonal Communication —OR—	3
Communication Studies 101H, Honors Introduction to Interpersonal Communication	
Communication Studies 103, Introduction to Intercultural Communication —OR—	3
Communication Studies 103H, Honors Introduction to Intercultural Communication	
Anthropology 104, Language and Culture —OR—	
Anthropology 104H, Honors Language and Culture —OR—	3
English 104, Language and Culture —OR—	
English 104H, Honors Language and Culture	
Psychology 140, Introduction to Psychology of Adulthood and Aging	3
Total	23-26

To complete the A.S. degree requirements, students need to fulfill the requirements for the Math and Reading proficiencies, American Institutions, Communication and Analytical Thinking, and Lifelong Understanding and Self-Development from Section F2.

SUPERVISION

(See *Management*)

TEACHING

Teaching is both an extremely rewarding and challenging profession. Students planning to teach elementary, secondary or special education may begin preparation at Santa Ana College. The college offers programs of study which fulfill the lower-division requirements for transfer into majors at CSU, UC, and independent colleges throughout the state.



Suggested Preparation for Elementary Teaching:

Liberal Studies and Child Development are the two most common university majors for students who are planning to enter Teacher Education programs for the multiple-subject teaching credential.

At Santa Ana College these relevant majors are described under Elementary Education (Pre-Professional) and the Child Development School-Age Option.

Suggested Preparation for Secondary Teaching:

Teaching at the secondary level (junior high / high school) requires a single-subject teaching credential. The best preparation is to major in the subject area one plans to teach.

Suggested Preparation for Special Education Teaching:

Students interested in working with students with special needs should determine which age group they are most interested in teaching. For elementary special education, students should take coursework as if they are preparing for the elementary classroom. Students interested in this area could use the Special Education Paraprofessional Program available at Santa Ana College to prepare for transfer to the university. For secondary special education, students should major in a core single-subject area (such as math, science, and English).

For more information on preparation for a career in teaching, please visit the Santa Ana College Center for Teacher Education, S-110.

TELEVISION/VIDEO COMMUNICATIONS

Option 1

Television/Video Communications Degree Program code: sac.tv.aa

The television/video communications program provides training in all major facets of television production with special emphasis on studio and field production, editing, broadcast journalism, scriptwriting, and computer graphics and animation.

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):

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.

The AA degree and certificate options use the following courses as the required core courses for all:

Required Core Courses: 12 units	Units
Television/Video Communications 100, Introduction to Electronic Media: Broadcasting, Cable, Video	3
Television/Video Communications 110, Introduction to Television Production	3
Television/Video Communications 112, Introduction to Video Editing and Post Production	3
Television/Video Communications 130, Principles of Broadcast News	3
Required Courses: 18 units:	
Television/Video Communications 115A, Single-Camera Production and Editing	3
Television/Video Communications 120, Screenwriting for TV, Film, the Web, Corporate Video and Digital Media	3
Television/Video Communications 150, Producing and Directing for Television	3
Television/Video Communications 152, Beginning Audio Production	3
Television/Video Communications 230A, Broadcast News Production	3
Television/Video Communications 260, Lighting Systems and Techniques for TV/Video	3
Plus 6 units from the following courses:	6
Art 162, Digital Design with Photoshop-I (3))	
Communications & Media Studies 105, Mass Media and Society (3)	
—OR—	
Communications & Media Studies 105H, Honors Mass Media and Society (3)	
Communication Studies 151, Voice and Diction for Effective Communication (3)	
Television/Video Communications 009A, TV/Video Communications Laboratory (0.5)	
Television/Video Communications 009B, TV/Video Communications Laboratory (0.5)	
Television/Video Communications 009C, TV/Video Communications Laboratory (0.5)	
Television/Video Communications 010A, TV/Video Communications Advanced Laboratory I (0.5)	
Television/Video Communications 010B, TV/Video Communications Advanced Laboratory II (0.5)	
Television/Video Communications 010C, TV/Video Communications Advanced Laboratory III (0.5)	
Television/Video Communications 010D, TV/Video Communications Advanced Laboratory IV (0.5)	
Television/Video Communications 101, TV and Society: A Visual History (3)	
Television/Video Communications 103, History of Film to 1945 (3)	
Television/Video Communications 104, History of Film from 1945 to Present (3)	
Television/Video Communications 115B, Advanced Single-Camera Production and Editing (3)	
Television/Video Communications 121, Intermediate Scriptwriting for TV, Film, the (Web, Corporate Video and Digital Media (3)	
Television/Video Communications 123, Advanced Scriptwriting for TV, Film, the Web, Corporate Video and Digital Media (3)	
Television/Video Communications 131, Beginning Broadcast News Workshop (2)	
Television/Video Communications 142, Acting for the Camera (3)	
Television/Video Communications 190, Introduction to ProTools (1.5)	
Television/Video Communications 215, (Advanced Single-Camera/Digital Cinema Production (3)	
Television/Video Communications 230B, Broadcast News Production (3)	



Television/Video Communications 230C, Broadcast News Production (3)	
Television/Video Communications 230D, Broadcast News Production (3)	
Television/Video Communications 298, TV/Video Communications Practicum/Internship (3)	
Theatre Arts 108, The Business of Entertainment (3)	
Total	36

Option 2
Associate in Science in Film, TV and Electronic Media for Transfer
Program code: sac.ftem.ast

The Associate in Science in Film, Television and Electronic Media for Transfer (A.S.-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 (A.S.-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 28 for a list of additional requirements for all Associate in Science for Transfer (A.A.-T) and Associate in Arts for Transfer (AS-T) degrees. Upon completion of the A.S.-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.

Required Core Courses: Select two: 6 units	Units
Television/Video Communications 100, Introduction to Electronic Media: Broadcasting, Cable, Video	
—OR—	
Communications & Media Studies 105, Mass Media and Society	3
—OR—	
Communications & Media Studies 105H, Honors Mass Media and Society	
Television/Video Communications 120, Beginning Screenwriting for TV, Film, the Web, Corporate Video and Digital Media	3

List A: Select one from each area	
Area 1: 3 units	3
Television/Video Communications 152, Beginning Audio Production (3)	
Music 152, Beginning Audio Production (3)	
Area 2: 3 units	3
Television/Video Communications 115A, Single-Camera Production and Editing (3)	

List B:	
Select one course:	3-4
Television/Video Communications 110, Introduction to Television Production (3)	
Art 100, Introduction to Art Concepts (3)	
Art 100H, Honors Introduction to Art Concepts (3)	
Art 102, Survey of Western Art History II: Renaissance through the Twentieth Century (3)	
Theatre Arts 100, Introduction to Theatre (3)	
English 102, Literature and Composition (4)	
English 102H, Honors Literature and Composition (4)	
English 103, Critical Thinking and Writing (4)	
English 103H, Honors Critical Thinking and Writing (4)	
Philosophy 110, Critical Thinking (4)	
Philosophy 110H, Honors Critical Thinking (4)	

List C:	
Select one course:	3
Any course not already used above:	
Television/Video Communications 101, TV and Society: A Visual History (3)	
Television/Video Communications 103, History of Film to 1945 (3)	
Television/Video Communications 104, History of Film from 1945 to Present (3)	
Television/Video Communications 112, Introduction to Video Editing and Postproduction (3)	
Television/Video Communications 115B, Advanced Single-Camera Production and Editing (3)	
Television/Video Communications 121, Intermediate Scriptwriting for TV, Film, the Web, Corporate Video and Digital Media (3)	
Television/Video Communications 123, Advanced Scriptwriting for TV, Film, the Web, Corporate Video and Digital Media (3)	
Television/Video Communications 150, Producing and Directing for Television (3)	
Television/Video Communications 215, Advanced Single-Camera/Digital Cinema Production (3)	
Television/Video Communications 298, TV/Video Communications Practicum/Internship (3)	
Total	15-19

Television/Video Communications Certificate

The Television/Video communications program provides training in all major facets of television production with special emphasis on studio and field production, editing, broadcast journalism, scriptwriting, and computer graphics and animation.

Completion of the certificate qualifies students for entry-level positions in commercial, cable, and industrial television.

Television/Video Communications A-Television Production Certificate (Transcripted)
Program code: sac.tva.ca

Emphasis on orientation with studio and field equipment, production planning, program directing, and post-production process.

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.



Course	Units
Core Courses: 12 units	
Television/Video Communications 100, Introduction to Electronic Media: TV, Radio, Film, and the Internet	3
Television/Video Communications 110, Introduction to Television Production	3
Television/Video Communications 112, Introduction to Video Editing and Postproduction	3
Television/Video Communications 130, Principles of Broadcast News	3
Required Courses: 18 units:	
Television/Video Communications 115A, Single-Camera Production and Editing	3
Television/Video Communications 120, Screenwriting for TV, Film, the Web, Corporate Video and Digital Media	3
Television/Video Communications 150, Producing and Directing for Television	3
Television/Video Communications 152, Beginning Audio Production	3
Television/Video Communications 230A, Broadcast News Production	4
Television/Video Communications 260, Lighting Systems and Techniques for TV/Video	1.5
Plus, select 6 units from the following courses:	6
Art 162, Digital Design with Photoshop-I (3)	
Communication Studies 151, Voice and Diction for Effective Communication (3)	
Television/Video Communications 009A, TV/Video Communications Laboratory (0.5)	
Television/Video Communications 009B, TV/Video Communications Laboratory (0.5)	
Television/Video Communications 009C, TV/Video Communications Laboratory (0.5)	
Television/Video Communications 010A, TV/Video Communications Advanced Laboratory I (0.5)	
Television/Video Communications 010B, TV/Video Communications Advanced Laboratory II (0.5)	
Television/Video Communications 010C, TV/Video Communications Advanced Laboratory III (0.5)	
Television/Video Communications 010D, TV/Video Communications Advanced Laboratory IV (0.5)	
Television/Video Communications 101, TV and Society: A Visual History (3)	
Television/Video Communications 103, History of Film to 1945 (3)	
Television/Video Communications 104, History of Film from 1945 to Present (3)	
Television/Video Communications 115B, Advanced Single-Camera Production and Editing (3)	
Television/Video Communications 121, Intermediate Scriptwriting for TV, Film, the (Web, Corporate Video and Digital Media (3)	
Television/Video Communications 123, Advanced Scriptwriting for TV, Film, the Web, Corporate Video and Digital Media (3)	

Television/Video Communications 131, Beginning Broadcast News Workshop (2)	
Television/Video Communications 140, Cinematography (3)	
Television/Video Communications 142, Acting for the Camera (3)	
Television/Video Communications 190, Introduction to ProTools (1.5)	
Television/Video Communications 193, Motion Graphics with Adobe After Effects (3)	
Television/Video Communications 215, Advanced Single-Camera/Digital Cinema Production (3)	
Television/Video Communications 230B, Broadcast News Production (3)	
Television/Video Communications 230C, Broadcast News Production (3)	
Television/Video Communications 230D, Broadcast News Production (3)	
Television/Video Communications 240, Agency Film Production (3)	
Television/Video Communications 255, Motion Picture Technical Production (3)	
Television/Video Communications 298, TV/Video Communications Practicum/Internship (3)	
Theatre Arts 108, The Business of Entertainment (3)	
Total	36

Television/Video Communications B–Broadcast Journalism Certificate (Transcripted) Program code: sac.tvb.ca

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.

Course	Units
Core Courses: 12 units	
Television/Video Communications 100, Introduction to Electronic Media: TV, Radio, Film, and the Internet	3
Television/Video Communications 110, Introduction to Television Production	3
Television/Video Communications 112, Introduction to Video Editing and Postproduction	3
Television/Video Communications 130, Principles of Broadcast News	3



Required Courses: 21 units:	
Television/Video Communications 115A, Single-Camera Production and Editing	3
Television/Video Communications 120, Screenwriting for TV, Film, the Web, Corporate Video and Digital Media	3
Television/Video Communications 142, Acting for the Camera	3
Television/Video Communications 152, Beginning Audio Production	3
Television/Video Communications 161, Fundamentals of Audio for TV and Film	1.5
Television/Video Communications 230A, Broadcast News Production	3
Television/Video Communications 230B, Broadcast News Production	3
Television/Video Communications 260, Lighting Systems and Techniques for TV/Video	1.5
Plus, select 3 units from the following courses: 3	
Art 162, Digital Design with Photoshop-I (3)	
Communications & Media Studies 105, Mass Media and Society (3)	
—OR—	
Communications & Media Studies 105H, Honors Mass Media and Society (3)	
Communication Studies 151, Voice and Diction for Effective Communication (3)	
Television/Video Communications 009A, TV/Video Communications Laboratory (0.5)	
Television/Video Communications 009B, TV/Video Communications Laboratory (0.5)	
Television/Video Communications 009C, TV/Video Communications Laboratory (0.5)	
Television/Video Communications 010A, TV/Video Communications Advanced Laboratory I (0.5)	
Television/Video Communications 010B, TV/Video Communications Advanced Laboratory II (0.5)	
Television/Video Communications 010C, TV/Video Communications Advanced Laboratory III (0.5)	
Television/Video Communications 010D, TV/Video Communications Advanced Laboratory IV (0.5)	
Television/Video Communications 101, TV and Society: A Visual History (3)	
Television/Video Communications 103, History of Film to 1945 (3)	
Television/Video Communications 104, History of Film from 1945 to Present (3)	
Television/Video Communications 108, The Business of Entertainment (3)	
Television/Video Communications 115B, Advanced Single-Camera Production and Editing (3)	
Television/Video Communications 121, Intermediate Scriptwriting for TV, Film, the (Web, Corporate Video and Digital Media (3)	
Television/Video Communications 123, Advanced Scriptwriting for TV, Film, the Web, Corporate Video and Digital Media (3)	
Television/Video Communications 131, Beginning Broadcast News Workshop (2)	
Television/Video Communications 142, Acting for the Camera (3)	
Television/Video Communications 190, Introduction to ProTools (1.5)	
Television/Video Communications 215, Advanced Single-Camera/Digital Cinema Production (3)	
Television/Video Communications 230C, Broadcast News Production (3)	
Television/Video Communications 230D, Broadcast News Production (3)	
Television/Video Communications 298, TV/Video Communications Practicum/Internship (3)	
Total	36

Electives must be chosen from the following courses:

- Art 196A, 197A;
- Communications & Media Studies 105 or 105H
- Communication Studies 151;
- Television/Video Communications 009, 010, 101, 103, 115B, 121, 123, 131, 142, 143, 150, 181, 185, 190, 215, 230C, 230D, 298;
- Theatre Arts 108, 110, 113, 131.

Television/Video Communications C-Television Scriptwriter Certificate (Transcribed)
Program code: sac.tvc.ca

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):

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.

Course	Units
Core Courses: 12 units	
Television/Video Communications 100, Introduction to Electronic Media: TV, Radio, Film, and the Internet	3
Television/Video Communications 110, Introduction to Television Production	3
Television/Video Communications 112, Introduction to Video Editing and Postproduction	3
Television/Video Communications 130, Principles of Broadcast News	3
Required Courses: 18 units:	
Television/Video Communications 101, Television and Society: A Visual History	3
Television/Video Communications 120, Screenwriting for TV, Film, the Web, Corporate Video and Digital Media	3
Television/Video Communications 121, Intermediate Scriptwriting for TV, Film, the Web, Corporate Video and Digital Media	3
Television/Video Communications 123, Advanced Scriptwriting for TV, Film, the Web, Corporate Video and Digital Media	3
Television/Video Communications 150, Producing and Directing for Television	3
Television/Video Communications 230A, Broadcast News Production	3


Plus, select 3 units from the following courses:

3

Communications & Media Studies 105, Mass Media and Society (3)

—OR—

Communications & Media Studies 105H, Honors Mass Media and Society (3)

Communication Studies 151, Voice and Diction for Effective Communication (3)

Television/Video Communications 009A, TV/Video Communications Laboratory (0.5)

Television/Video Communications 009B, TV/Video Communications Laboratory (0.5)

Television/Video Communications 009C, TV/Video Communications Laboratory (0.5)

Television/Video Communications 010A, TV/Video Communications Advanced Laboratory I (0.5)

Television/Video Communications 010B, TV/Video Communications Advanced Laboratory II (0.5)

Television/Video Communications 010C, TV/Video Communications Advanced Laboratory III (0.5)

Television/Video Communications 010D, TV/Video Communications Advanced Laboratory IV (0.5)

Television/Video Communications 101, TV and Society: A Visual History (3)

Television/Video Communications 103, History of Film to 1945 (3)

Television/Video Communications 104, History of Film from 1945 to Present (3)

Television/Video Communications 115A, Single-Camera Production and Editing (3)

Television/Video Communications 115B, Advanced Single-Camera Production and Editing (3)

Television/Video Communications 131, Beginning Broadcast News Workshop (2)

Television/Video Communications 142, Acting for the Camera (3)

Television/Video Communications 190, Introduction to ProTools (1.5)

Television/Video Communications 215, Advanced Single-Camera/Digital Cinema Production (3)

Television/Video Communications 230B, Broadcast News Production (3)

Television/Video Communications 230C, Broadcast News Production (3)

Television/Video Communications 230D, Broadcast News Production (3)

Television/Video Communications 298, TV/Video Communications Practicum/Internship (3)

Theatre Arts 108, The Business of Entertainment (3)

Total 33

Electives must be chosen from the following courses:

Art 196A, 197A;

Communications & Media Studies 105 or 105H; Communication Studies 151;

Television/Video Communications 009, 010, 101, 103, 104, 115A, 115B, 121, 123, 131, 141, 142, 181, 185, 190, 215, 230B, 230C, 230D, 298;

Theatre Arts 108, 110, 113, 131.

Television/Video Communications–Media Studies Certificate (Untranscribed)
Program code: sac.tvms.cert

Emphasis on preparing students for careers as producers and executives in the cable, television, and film industries as well as those who wish to be media teachers, critics, and historians. Students will gain theoretical knowledge about the history, development, and societal impact of the media in the United States and the world as well as practical experience in dealing with production aesthetics and terminology, basic scriptwriting skills, and business and budgeting applications relating to the electronic media.

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.

***CORE COURSES* for other Television/Video Communications Certificates are not required for this specialty Certificate.**

Required Courses: 12 units	Units
Communications & Media Studies 105, Mass Media and Society (3)	
—OR—	
Communications & Media Studies 105H, Honors Mass Media and Society (3)	3
Television/Video Communications 100, Introduction to Electronic Media: TV, Radio, Film and the Internet	3
Television/Video Communications 101, Television and Society: A Visual History	3
Television/Video Communications 103, History of Film to 1945 (3)	
—OR—	
Television/Video Communications 104, History of Film from 1945 to Present (3)	3
—OR—	
Television/Video Communications 120, Beginning Writing for TV, Film and Corporate Video (3)	
Total	12

THEATRE ARTS
Option 1 (A)
Performance Emphasis Degree
Program code: sac.taper.aa

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 in arts degree for transfer. Please consult a SAC counselor for information about course requirements for particular four-year institutions.



Learning Outcome(s):

1. Students will develop competency and gain practical experience in performing dynamic characters in the presentation of public performances of live stage productions.
2. Students will develop an understanding of the interaction between script, actor and audience and the areas of scenery, lighting, sound and costume.
3. Students will demonstrate knowledge of the historical and cultural dimensions of theatre, including the works of leading playwrights, actors, directors and designers, past and present.

Major requirements for the associate of arts degree:

Core courses: 9 units	Units
Theatre Arts 100, Introduction to the Theatre —OR—	3
Theatre Arts 105, A Cultural History of World Theatre	3
Theatre Arts 110, Fundamentals of Acting	3
Theatre Arts 131, Stagecraft	3
Plus 9 units from the following courses	9
Theatre Arts 108, The Business of Entertainment (3)	
Theatre Arts 111, Intermediate Acting (3)	
Theatre Arts 113, Acting for Camera (3)	
Theatre Arts 114, Acting for Camera II (3)	
Theatre Arts 118, Fundamentals of Scene Study (2)	
Theatre Arts 132, Stage Makeup (3)	
Theatre Arts 135, Technical Production (1)	
Theatre Arts 150A, Rehearsal and Performance in Production (2)	
Theatre Arts 150B, Technical Theatre in Production (2)	
Theatre Arts 151, Showcase (2)	
Theatre Arts 152, Tour Ensemble (3)	
Theatre Arts 153, Introduction to Directing (2)	
Theatre Arts 154, Performance Ensemble (2)	
Theatre Arts 155, Children's Theatre Ensemble (2)	
Theatre Arts 156, Reader's Theatre Workshop (2)	
Theatre Arts 198, Topics (2)	
Theatre Arts 250, Advanced Theatre Production (2)	
Theatre Arts 255, Motion Picture Performance Production (3)	
Theatre Arts 256, Intermediate Motion Picture Performance Production (3)	
Total	18

Option 1 (B)

Technical Theatre Emphasis Degree
Program code: sac.tatec.aa

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 in 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 in arts degree for transfer.

Learning Outcome(s):

1. Students will 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. Students will demonstrate competency in core practical skills as used in the technical theatre industry today.
3. Students will develop a clear understanding of the interaction between script and the areas of stage management, scenery, lighting, sound and costume.

Major requirements for the associate of arts degree:

Core courses: 9 units	Units
Theatre Arts 100, Introduction to the Theatre —OR—	3
Theatre Arts 105, A Cultural History of World Theatre	3
Theatre Arts 110, Fundamentals of Acting	3
Theatre Arts 131, Stagecraft	3
Plus 9 units from the following courses	9
MUS 152, Beginning Audio Production (3) —OR—	
Television/Video Communications 152, Beginning Audio Production (3)	
Theatre Arts 132, Stage Makeup (3)	
Theatre Arts 133, Lighting Fundamentals (3)	
Theatre Arts 135, Technical Production (1)	
Theatre Arts 150B, Technical Theatre in Production (2)	
Theatre Arts 151, Showcase (2)	
Theatre Arts 165, Introduction to Intelligent Lighting (1.5)	
Theatre Arts 165L, Fundamentals of Programming for Intelligent Lighting Lab (0.5)	
Theatre Arts 166, Intermediate Programming (1)	
Theatre Arts 166L, Intermediate Programming Lab (1)	
Theatre Arts 167, Setup for Intelligent Lighting (1)	
Theatre Arts 168A, Computer Applications for Entertainment Lighting (2.5)	
Theatre Arts 170, Entertainment Technology Internship (1)	
Theatre Arts 198, Topics (2)	
Total	18

Option 2

Associate in Arts in Theatre Arts for Transfer
Program code: sac.taper.aa

Revisions to this degree are pending approval from the Community College's Chancellor's Office. Please consult a counselor for additional information.

The Associate in Arts in Theatre Arts for Transfer (A.A.-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. Completion of the A.A.-T degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to a local CSU in the Theatre Arts major. **See page 28 for a list of additional requirements for all Associate in Arts for Transfer (A.A.-T) and Associate in Science for Transfer (A.S.-T) degrees.** Upon completion of the A.A.-T in Theatre Arts, students will understand and be able to demonstrate the fundamental performance and technical production processes for the 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. Students will participate in the creation and presentation of public performances of theatre to gain an understanding of the processes and collaborative nature of the art.
2. Students will develop an understanding of the interaction between script, actor and audience and the areas of scenery, lighting, sound and costume.



Complete 9 units from the following core:	Units
Theatre Arts 100, Introduction to the Theatre —OR—	3
Theatre Arts 105, A Cultural History of World Theatre	
Theatre Arts 110, Fundamentals of Acting	3

Performance emphasis – Choose 3 units from the following courses:	3
Theatre Arts 150A, Rehearsal and Performance in Production (2)	
Theatre Arts 151, Showcase (3)	
Theatre Arts 152, Tour Ensemble (2)	
Theatre Arts 154, Performance Ensemble (2)	
Theatre Arts 155, Children's Theatre Ensemble (2) —OR—	

Technical Theatre emphasis – Choose 3 units from the following courses:	
Theatre Arts 135, Technical Production (1)	
Theatre Arts 150B, Technical Theatre in Production (2)	

Select 9 units from the following electives	9
Theatre Arts 111, Intermediate Acting (3)	
Theatre Arts 131, Stagecraft(3)	
Theatre Arts 132, Stage Makeup (3)	
Theatre Arts 133, Lighting Fundamentals (3)	
Theatre Arts 136, Fundamentals of Costume Design (3)	
Fashion Design Merchandising 136 Fundamentals of Costume Design (3)	

Technical students a maximum of 3 units from the following:	
Theatre Arts 150A, Rehearsal and Performance in Production (2)	
Theatre Arts 151, Showcase (3)	
Theatre Arts 152, Tour Ensemble (2)	
Theatre Arts 154, Performance Ensemble (2)	
Theatre Arts 155, Children's Theatre Ensemble (2)	

Performance students a maximum of 3 units from the following:	
Theatre Arts 135, Technical Production (1)	
Theatre Arts 150B, Technical Theatre in Production (2)	

Total 18

Costume Design Certificate (Untranscripted) Program code: sac.tacd.cert

This certificate curriculum is designed to prepare students for entry level costume careers within the entertainment industry which includes television/film, theme parks, theatres, and varied performance venues across the country and world. Emphasis is placed on developing fundamental costume design skill sets while gaining an understanding of the processes and procedures utilized in the entertainment industry for costuming actors/performers. Possible entry level job titles are: Costume Design Assistant, Wardrobe Manager, Costume Manager, Dresser, Cutter/Draper, Production Designer, and Costume Shop Assistant, all of which can lead to advanced careers within these industries.

Learning Outcome(s):

1. Students will demonstrate an understanding of the relationship between costumes, the script, and the actor.
2. Students will develop an understanding of the responsibilities and the art of the costume designer as it relates to characterization for a specific script.
3. Students will develop the fundamental skills to visualize, pattern, construct, and fit performers with custom costumes.

Complete the following 17.0 units:	Units
Fashion Design Merchandising 105A, Beginning Sewing	3
Fashion Design Merchandising 111A, Fashion Illustration Techniques	3
Fashion Design Merchandising 113, Fashion Draping	3
Fashion Design Merchandising 136, Fundamentals of Costume Design (3) —OR—	3
Theatre Arts 136, Fundamentals of Costume Design (3)	
Theatre Arts 132, Stage Makeup	3
Theatre Arts 150B, Technical Theatre in Production	2
Total	17

Entertainment Business Certificate of Proficiency (Untranscripted)

Program code: sac.taeb.cert

Designed for aspiring business leaders, managers, and entrepreneurs in the entertainment industry. Students gain an understanding of industry business practices by studying pre-production, production, post-production, entertainment law, contracts, unions, finance, marketing, and distribution.

Learning Outcome(s):

Students will demonstrate an understanding of entertainment industry business practices and marketing strategies for entertainment products.

Course	Units
Business 100, Fundamentals of Business	3
Theatre Arts 107, Acting for the Non-Actor (3) —OR—	3
Entrepreneurship 147, Acting for the Non-Actor (3)	
Theatre Arts 108, The Business of Entertainment (3) —OR—	3
Entrepreneurship 148, The Business of Entertainment 3	
Entrepreneurship 100, Introduction to Innovation and Entrepreneurship	3

Plus a minimum of 5 units from the following courses:	5
Entrepreneurship 120, Introduction to Working as a Freelance Independent Contractor (1)	
Entrepreneurship 121, People Skills for the Freelancer (1)	
Entrepreneurship 122, Opportunities in Freelance Industries and Trades (1)	
Entrepreneurship 123, Marketing to Attract Customers and Grow Your Freelance Business (1)	
Entrepreneurship 124, Survival Finance and Accounting for the Freelancer-Show Me the Money (1)	
Entrepreneurship 125, Launch Your Freelance Business (1)	
Total	17

Entertainment Lighting Technology Certificate (Untranscripted)

Program code: sac.taelt.cert

The Entertainment Lighting Technology Certificate program provides hands-on educational training with a focus on emerging lighting systems through the study of automated fixtures and varied control consoles, including contemporary computer apps used for show design, visualization, project management, and support documentation.

Students will become proficient in the utilization of both conventional and automated lighting technologies commonly used in concerts, dance performances, television, theatre, theme parks, sports arenas, houses of worship, industrial applications, and more. Students will develop the fundamental skills necessary to assist them in pursuing career paths such as:



- Entertainment Lighting Technician
- Moving Light Programmer
- Console Operator
- Moving Light Technician
- Master Electrician
- Assistant Lighting Designer

Learning Outcome(s):

1. Students will 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. Students will 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.

Requirements for the certificate:

Core Courses: 8.0 units	Units
Theatre Arts 150B, Technical Theatre in Production	2
Theatre Arts 165, Introduction to Intelligent Lighting	2
Theatre Arts 165L, Fundamentals of Programming for Intelligent Lighting Lab	0.5
Theatre Arts 166, Intermediate Programming	1
Theatre Arts 166L, Intermediate Programming Lab	1
Theatre Arts 167, Set Up for Intelligent Lighting	1
Theatre Arts 170, Entertainment Technology Internship	1
Plus a minimum of 8.5 units from the following courses:	8.5
Theatre Arts 131, Stagecraft(3)	
Theatre Arts 133, Lighting Fundamentals (3)	
Theatre Arts 135, Technical Production (1)	
Theatre Arts 168A, Computer Applications for Entertainment Lighting (2.5)	
Music 152, Beginning Audio Production (3)	
Total	17

Performance Emphasis Certificate (Untranscribed) Program code: sac.tape.cert

Designed for those who want to pursue a professional acting career. Students learn the techniques involved in creating a character for performance, auditioning, and improvisation and have ample opportunity to hone their skills in live performance opportunities.

Learning Outcome(s):

1. Students will develop competency and gain practical experience in performing dynamic characters in the presentation of public performances of live stage productions.
2. Students will demonstrate an understanding of the artistic processes involved in the collaborative art of theatre.

Core Required Courses :	Units
Theatre Arts 110, Fundamentals of Acting	3
Theatre Arts 111, Intermediate Acting	3
Theatre Arts 118, Fundamentals of Scene Study	2
Theatre Arts 154, Performance Ensemble	2
Plus a minimum of 2 units from the following courses	2
Theatre Arts 150A, Rehearsal and Performance in Production (2)	
Theatre Arts 153, Introduction to Directing (2)	
Theatre Arts 155, Children's Theatre Ensemble (2)	
Theatre Arts 255, Motion Picture Performance Production (3)	
Total	12

Screen Performance Certificate (Untranscribed) Program code: sac.tasp.cert

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. Students will develop competency and gain practical experience in performing dynamic on-screen characters in various styles of television and cinema production.
2. Students will demonstrate an understanding of the artistic processes involved in acting for the camera.

Core Required Courses	Units
Television/Video Communications 110, Introduction to Television Production	3
Television/Video Communications 112, Introduction to Video Editing and Post Production	3
Theatre Arts 113, Acting for the Camera	3
Theatre Arts 114, Acting for the Camera II	3
Theatre Arts 255, Motion Picture Performance Production	2
Plus a minimum of 3 units from the following courses	3
Television/Video Communications 115A, Single-Camera Production & Editing (3)	
Television/Video Communications 120, Beginning Writing for TV, Film and Corporate Video (3)	
Television/Video Communications 150, Producing and Directing for Television (3)	
Theatre Arts 198-255B, Motion Picture Production (2)	
Theatre Arts 256, Intermediate Motion Picture Performance Production (3)	
Total	17

WELDING

Welding Technology Degree Program code: sac.weld.as

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 manipulative skills and technical knowledge required to operate oxyacetylene, shielded electric arc, M.I.G., T.I.G. and semiautomatic flame cutting welding equipment. 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, production welder in manufacturing, construction industries 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, T.I.G., and M.I.G.

Learning Outcome(s):

1. Student will successfully pass a comprehensive online course on Shop Safety.
2. Students will successfully pass a comprehensive online course on Shop Environmental Concerns.

**Major requirements for the associate degree:**

Course	Units
Welding 108, Oxyacetylene-Arc Welding	3
Welding 125A, Intermediate Arc Welding	3
Welding 129A, Advanced Arc Welding Level I	3
Welding 139A, Inert Gas Welding Level I	3
Welding 153A, Math/Blue Print Reading for Welders	3
Welding 154A, Beginning Pipe Fundamentals	3
Please select 3 units from the following list:	3
Business 170, Principles of Small Business Management (3)	
English 061, Introduction to Composition (3)	
Manufacturing Technology 053, Technical Mathematics (3)	
Communication Studies 101, Introduction to Interpersonal Communication (3)	
—OR—	
Communication Studies 101H, Honors Introduction to Interpersonal Communication (3)	
Welding 140A, Welding Certification Training Level I (3)	
Total	21

Welding Technology Certificate (Transcripted)

Program code: sac.weld.ca

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 manipulative skills and technical knowledge required to operate oxyacetylene, shielded electric arc, MIG, TIG and semiautomatic flame cutting welding equipment. 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, production welder in manufacturing, construction industries 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, and MIG.

Learning Outcome(s):

1. Student will successfully pass a comprehensive online course on Shop Safety.
2. Students will successfully pass a comprehensive online course on Shop Environmental Concerns.

Major requirements for the certificate:

Course	Units
Welding 108, Oxyacetylene-Arc Welding	3
Welding 125A, Intermediate Arc Welding	3
Welding 129A, Advanced Arc Welding Level I	3
Welding 139A, Inert Gas Welding Level I	3
Welding 153A, Math/Blue Print Reading for Welders	3
Please select 3 units from the following list:	3
Business 170, Principles of Small Business Management (3)	
English 061, Introduction to Composition (3)	
Manufacturing Technology 053, Technical Mathematics (3)	
Communication Studies 101, Introduction to Interpersonal Communication (3)	
—OR—	
Communication Studies 101H, Honors Introduction to Interpersonal Communication (3)	
Welding 140A, Welding Certification Training Level I (3)	
Total	18

Advanced Arc-Semi-Automatic Welding Certificate (Transcripted)

Program code: sac.advweld.ca

The certificate curriculum in welding technology is designed to provide advanced occupational training in Advanced Arc and Inert Gas Welding in common types of welding methods relating to the needs of today's welding fabrication industry. The program provides students with manipulative skills and technical knowledge required to operate oxyacetylene, shielded electric arc, MIG, TIG and semiautomatic flame cutting welding equipment. 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, production welder in manufacturing, construction industries 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. Student will successfully pass a comprehensive online course on Shop Safety.
2. Students will successfully pass a comprehensive online course on Shop Environmental Concerns.

Major requirements for the certificate:

Course	Units
Welding 129B, Advanced Arc Welding Level II	3
Welding 129C, Advanced Arc Welding Level III	3
Welding 129D, Advanced Arc Welding Level IV	3
Welding 139B, Inert Gas Welding Level II	3
Welding 139C, Inert Gas Welding Level III	3
Welding 140B, Welding Training Certification Level II	3
Welding 140C, Welding Certification Training Level III	3
Welding 141B, Welding Certification Exam Preparation Level II	3
Total	24

Advanced Pipe Welding Technology Certificate (Untranscripted)

Program code: sac.welap.cert

The certificate curriculum in welding technology is designed to provide advanced occupational training in pipe welding, both manually in advanced arc and automatically through orbital technologies with inert gas welding processes. These classes are designed to meet both current and future needs in the pipe welding industry. The program provides students oxyacetylene, shielded electric arc, semi-automatic flame cutting equipment, orbital welding technologies using MIG and TIG processes automatically. In addition, students will be prepared for certification as required by employment in the pipe welding industry. Employment opportunities available are welder, welder technician, inspector, maintenance welder, production welder in manufacturing, construction industries, 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. Student will successfully pass a comprehensive online course on Shop Safety.
2. Students will successfully pass a comprehensive online course on Shop Environmental Concerns.

Major requirements for the certificate:

Course	Units
Welding 154A, Beginning Pipe Fundamentals	3
Welding 154B, Intermediate Pipe Welding	3
Welding 154C, Advanced Pipe Welding	3
Total	9



Automated Robotic Welding Systems Certificate (Transcripted)

Program code: sac.welar.ca

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. Student will successfully pass a comprehensive online course on Shop Safety.
2. Students will successfully pass a comprehensive online course on Shop Environmental Concerns.

Major requirements for the certificate:

Course	Units
Welding 156A, Beginning Robotic Welding	3
Welding 156B, Intermediate Robotic Welding	3
Welding 156C, Advanced Robotic Welding	3
Welding 157A, Basic Robotic Programming	3
Welding 157B, Intermediate Robotic Programming	3
Welding 157C, Advanced Robotic Programming Welding	3
Total	18

WOMEN'S STUDIES

Women's Studies Degree

Program code: sac.wmns.aa

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):

Students will utilize a feminist theoretical analysis of social interactions and social structures, explaining the formation, maintenance, and change of socio-cultural identities.

Major requirements for the associate in arts degree:

Course	Units
Women's Studies 101, Introduction to Women's Studies	3
Women's Studies 102, Women in America: Work, Self, Family	3
Women's Studies 201, Contemporary Women's Issues	3
English 278, Survey of Literature by Women	3
Kinesiology Health Education 102, Women's Health Issues	3
Interdisciplinary Studies 155, Human Sexuality	3
History 127, Women in U.S. History	3
Electives	6
Total	27

Recommended electives: Counseling 116, 117; History 181; Philosophy 108; Psychology 140; Sociology 112; Women's Studies 198.





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 35, 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 www.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 www.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 ASSIST database at www.assist.org 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, Introduction to Criminal Justice
AJ 120	CJ 103, Concepts of Criminal Law
AJ 122	CJ 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, 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 100H, Introduction to Cultural Anthropology or Honors Introduction to Cultural Anthropology
ANTH 150	ANTH 103, Introduction to Archaeology
ARTH 100	ART 100 or 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
BUS 110	BUS 100, Fundamentals of Business
BUS 115	BUS 222, Business Writing
BUS 120	BUS 105, Legal Environment of Business
BUS 125	BUS 101, Business Law

C-ID	SAC COURSE
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 219H, General Chemistry or Honors General Chemistry
CHEM 120S	CHEM (219 or 219H) + 229, General Chemistry or Honors General Chemistry + General Chemistry and Qualitative Analysis
CHEM 160S	CHEM 249 + 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 101H, Introduction to Interpersonal Communication or Honors Introduction to Interpersonal Communication
COMM 140	CMST 145, Group Dynamics
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, 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 101H, Freshman Composition or Honors Freshman Composition



C-ID	SAC COURSE	C-ID	SAC COURSE
ENGL 105	ENGL 102 or 102H, Literature and Composition or Honors Literature and Composition	KIN 101	KNHE 105 + KNHE 107, First Aid and Personal Safety + Cardiopulmonary Resuscitation
ENGL 105	ENGL 103 or 103H, Critical Thinking and Writing or Honors Critical Thinking and Writing	MATH 110	MATH 219 or 219H, Statistics and Probability or Honors Statistics and Probability
ENGL 110	ENGL 102 or 102H, Literature and Composition or Honors Literature and Composition	MATH 110	PSYCH 210, Statistics for the Behavioral Sciences
ENGL 120	ENGL 102 or 102H, Literature and Composition or Honors Literature and Composition	MATH 130	MATH 145, Finite Mathematics
ENGL 130	ENGL 241, Survey of American Literature 1600-1865	MATH 140	MATH 150, Calculus for Biological, Management, and Social Sciences
ENGL 135	ENGL 242, Survey of American Literature 1865-Present	MATH 155	MATH 170, Pre-Calculus Mathematics
ENGL 140	ENGL 271, Survey of World Literature I	MATH 210	MATH 180 or 180H, Single Variable Calculus I or Honors Single Variable Calculus I
ENGL 145	ENGL 272, Survey of World Literature II	MATH 220	MATH 185, Single Variable Calculus II
ENGL 160	ENGL 231, Survey of English Literature I	MATH 230	MATH 280, Intermediate Calculus
ENGL 165	ENGL 232, Survey of English Literature II	MATH 900S	MATH (180 or 180H) + 185 Analytic Geometry and Calculus or Analytic Geometry and Calculus I + Analytic Geometry and Calculus II
ENGL 180	ENGL 270, Children's Literature	MATH 910S	MATH 287, Introduction to Linear Algebra and Differential Equations
ENGL 200	ENGL 213, Creative Writing	MUS 100	MUS 101 or 101H, Music Appreciation or Honors Music Appreciation
ENGR 110	ENGR 100A, Introduction to Engineering	MUS 110	MUS 110, Music Fundamentals and Culture
ENGR 180	ENGR 118, Surveying	MUS 120	MUS 111, Basic Music Theory and Musicianship I
ENGR 230	ENGR 240, Dynamics	MUS 125	MUS 111, Basic Music Theory and Musicianship I
FTVE 130	TELV 115A, Single-Camera Production and Editing	MUS 130	MUS 112, Music Theory and Musicianship II
GEOG 110	GEOG 101, Physical Geography	MUS 135	MUS 112, Music Theory and Musicianship II
GEOG 111	GEOG 101L, Physical Geography Laboratory	MUS 140	MUS 213, Theory 3
GEOG 120	GEOG 102, Cultural Geography	MUS 145	MUS 114A, Musicianship
GEOG 125	GEOG 100 or 100H, World Regional Geography or Honors World Regional Geography	MUS 150	MUS 214, Theory 4
GEOG 130	GEOG 130, Introduction to Weather and Climate	MUS 155	MUS 114B, Musicianship
GEOG 140	GEOG 140, California Geography	MUS 160	MUS 115A, Applied Music (Private Instruction)
GEOG 155	GEOG 155 or BA 150, Introduction to Geographic Information Systems	MUS 160	MUS 115B, Applied Music (Private Instruction)
GEOL 100	GEOL 101, Introduction to Geology	MUS 160	MUS 115C, Applied Music (Private Instruction)
GEOL 100L	GEOL 101L, Introduction to Geology Lab	MUS 160	MUS 115D, Applied Music (Private Instruction)
GEOL 111	GEOL 201, Introduction to Historical Geology	MUS 180	MUS 135, Concert Chorale
GEOL 120	ERTH 110 or 110H, Introduction to Earth Science or Honors Introduction to Earth Science	MUS 180	MUS 137, Chamber Choir
GEOL 130	ENVR 140, Environmental Geology	MUS 180	MUS 171, Concert Band
GEOL 130	GEOL 140, Environmental Geology	MUS 180	MUS 175, Jazz Ensemble
HIST 140	HIST 121 or 121H, The United States Since 1865 or Honors the United States Since 1865	MUS 180	MUS 181, Chamber Orchestra
HIST 150	HIST 101 or 101H, World Civilizations to the 16th Century or Honors World Civilizations to the 16th Century	MUS 180	MUS 271, Symphonic Band
HIST 160	HIST 102 or 102H, World Civilizations Since the 16th Century or Honors World Civilizations Since the 16th Century	NUTR 110	NUTR 115 or 115H, Nutrition or Honors Nutrition
ITIS 120	BUS 150, Introduction to Information Systems and Applications	NUTR 120	NUTR 116, Principles of Food Preparation
JOUR 100	CMSD 105 or 105H, Mass Media and Society or Honors Mass Media and Society	PHIL 100	PHIL 106 or 106H, Introduction to Philosophy or Honors Introduction to Philosophy
JOUR 110	CMSD 121, Introduction to Reporting and Newswriting	PHIL 110	PHIL 111, Introductory Logic
JOUR 130	CMSD 123A, News Media Production	PHIL 120	PHIL 108, Ethics
JOUR 131	CMSD 123B, News Media Production	PHYS 105	PHYS 210, Principles of Physics I
JOUR 160	CMSD 160, Introduction to Photojournalism	PHYS 105	PHYS 279, College Physics I
JOUR 170	CMSD 103, Introduction to Visual Communication	PHYS 110	PHYS 289, College Physics II
JOUR 210	CMSD 210, Intermediate Reporting and Newswriting	PHYS 110	PHYS 211, Principles of Physics II
KIN 100	KNPR 101, Introduction to Kinesiology	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 101H, Introduction to American Governments or Honors Introduction to American Governments



C-ID	SAC COURSE
POLS 120	POLT 200 or 200H, American Political Thought or Honors American Political Thought
POLS 130	POLT 201, Introduction to Comparative Politics
POLS 140	POLT 220, International Politics
PSY 110	PSYC 100 or 100H, Introduction to Psychology or Honors Introduction to Psychology
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 200	PSYC 219, Introduction to Research Methods in Psychology
SOCI 110	SOC 100 or 100H, Introduction to Sociology or Honors Introduction to Sociology
SOCI 115	SOC 140 or 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 219H, Statistics and Probability or Honors Statistics and Probability
SOCI 130	SOC 112, Relationships, Marriages, and Family Dynamics
SPAN 100	SPAN 101 or 101H, Elementary Spanish I or Honors Elementary Spanish I
SPAN 110	SPAN 102 or 102H, Elementary Spanish II or Honors Elementary Spanish II
SPAN 200	SPAN 201 or 201H, Intermediate Spanish I or Honors Intermediate Spanish I
SPAN 210	SPAN 202 or 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

Prerequisites Definition

Prerequisites are courses, skills, or background experiences that are considered necessary in order for a student to be successful in a course. They are required prior to enrolling in the course.

Course Materials and Service Fees

Certain courses require additional costs to the student in excess of normal book and supply expense. Such courses will be designated in the published class schedules.

THE COLLEGE RESERVES THE RIGHT TO CANCEL SCHEDULED CLASSES.

Note on Topics Courses 098 and 198: The college may offer Topics courses, either under 098 (non-transfer) or 198 (transfer) under any discipline listed in the announcement of courses. Topics courses are specialized courses on topics related to the immediate and changing needs of students. They may not be offered every semester, and, after no more than two scheduled offerings, they must be either converted to regular ongoing course status or be deleted.



ACCOUNTING (ACCT)

Accounting 010

Accounting Procedures

Unit(s): 3.0

Class Hours: 48 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.

Accounting 032

Payroll Accounting

Unit(s): 1.0

Class Hours: 16 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.

Accounting 035

QuickBooks I

Formerly: QuickBooks

Unit(s): 2.0

Class Hours: 32 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.

Accounting 036

Quickbooks II

Unit(s): 2.0

Class Hours: 32 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 prepare students for the QuickBooks Certified User exam.

Accounting 101 (C-ID ACCT 110)

Financial Accounting

Unit(s): 4.0

Class Hours: 64 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

Accounting 102 (C-ID ACCT 120)

Managerial Accounting

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: Accounting 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

Accounting 104

Federal and California Taxes

Unit(s): 4.0

Class Hours: 64 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

Accounting 106

Cooperative Work Experience Education - Occupational

Unit(s): 1.0 - 4.0

Class Hours: 60 - 300 Lecture 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. Grade: Pass/No Pass Only. Open Entry/Open Exit. CSU

Accounting 108

Tax Practices and Procedures

Unit(s): 3.0

Class Hours: 48 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

Accounting 113

Intermediate Income Taxes - Corporations

Unit(s): 2.0

Class Hours: 32 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. This course may be repeatable as continuing education for professional certification. CSU

Accounting 114

Intermediate Income Taxes - Partnership and LLCs

Unit(s): 2.0

Class Hours: 32 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. This course may be repeatable as continuing education for professional certification. CSU



Accounting 116
Money, Finance and Accounting for
Entrepreneurs

Unit(s): 2.0

Class Hours: 32 Lecture total.

Learn how entrepreneurial finance works - where, when, and how to get financing debt, equity, bootstraps, angels and venture capitalists. Determine how much you need, when and how to get it. Learn the critical importance of leveraging resources. Learn that cash flow is critical to entrepreneurs. Learn what you really need to know about bookkeeping and accounting and how to use numbers to make smarter decisions. (Same as Entrepreneurship 107.) CSU

Accounting 124
Computerized Income Tax Preparation

Unit(s): 1.0

Class Hours: 16 Lecture total.

This course provides a student with the practical knowledge of income tax preparation and the income tax formula using commercial tax software. This course may be repeatable as continuing education for professional certification as legally mandated, for licensure and/or due to a significant lapse of time. CSU

Accounting 170
Microsoft Dynamics for Financial Accounting
- Core Modules

Unit(s): 4.0

Class Hours: 64 Lecture total.

Recommended Preparation: Accounting 101 with a minimum grade of C.

Hands-on training in the use of Microsoft Dynamics integrated software covering setup and transaction processing for the core modules of general ledger, accounts payable, and accounts receivable, and financial reporting for service businesses. CSU

Accounting 171
Microsoft Dynamics for Financial Accounting -
Operations and Analysis

Unit(s): 4.0

Class Hours: 64 Lecture total.

Recommended Preparation: Accounting 101 and Accounting 170 with a minimum grade of C.

Hands-on training in the use of Microsoft Dynamics integrated software covering setup, operational processing and analysis for general ledger, accounts payable, accounts receivable, inventory, and financial Reporting for Service and Merchandising Companies. CSU

Accounting 198

Topics

Unit(s): 1.0 - 4.0

Class Hours: 16 - 64 Lecture total.

Courses on a variety of contemporary topics will be offered to meet the interests and needs of students in Accounting. CSU

Accounting 202
Cost Accounting for Construction Engineering

Unit(s): 3.0

Class Hours: 48 Lecture total.

Study of the theoretical and practical concepts of cost accounting. Topics include variable and fixed costs; break-even point; interrelationships of cost, volume, and profits; job-order accounting; general and flexible budgeting; standard costs; product costing methods; cost allocation; inventory planning; control and valuation; and joint products. (Same as Engineering 202.) CSU

Accounting 204
Managerial Cost Accounting

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Accounting 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

Accounting 205
Intermediate Accounting I

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Accounting 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

Accounting 206
Intermediate Accounting II

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Accounting 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

Accounting 210
Accounting Information Systems

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Accounting 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

Accounting 211
Auditing

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Accounting 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

Accounting 212
Accountants' Ethics and Responsibility

Unit(s): 4.0

Class Hours: 64 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)

American Sign Language 110
American Sign Language I

Unit(s): 4.0

Class Hours: 64 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



American Sign Language 111
American Sign Language II

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: American Sign Language 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

American Sign Language 113
Introduction to Interpreting for the Deaf

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: American Sign Language 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

American Sign Language 114
Classifiers, Fingerspelling, and Numbering

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: American Sign Language 111 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

American Sign Language 116
Introduction to Deaf Studies

Unit(s): 3.0

Class Hours: 48 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

American Sign Language 210
American Sign Language III

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: American Sign Language 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

ANTHROPOLOGY (ANTH)

Anthropology 100 (C-ID ANTH 120)
Introduction to Cultural Anthropology

Unit(s): 3.0

Class Hours: 48 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

Anthropology 100H (C-ID ANTH 120)
Honors Introduction to Cultural Anthropology

Unit(s): 3.0

Class Hours: 48 Lecture total.

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

Anthropology 101 (C-ID ANTH 110)
Introduction to Physical Anthropology

Unit(s): 3.0

Class Hours: 48 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

Anthropology 101L
Physical Anthropology Laboratory

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Anthropology 101 with a minimum grade of C 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

Anthropology 103 (C-ID ANTH 150)
Introduction to Archaeology

Unit(s): 3.0

Class Hours: 48 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

Anthropology 104
Language and Culture

Unit(s): 3.0

Class Hours: 48 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. CSU/UC



Anthropology 104H Honors Language and Culture

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

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. Requires individual research and oral presentation of readings in a seminar setting. CSU/UC

Anthropology 105 Ancient Mesoamerican Civilization

Unit(s): 3.0

Class Hours: 48 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

Anthropology 108 Religion, Magic, and Witchcraft

Unit(s): 3.0

Class Hours: 48 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

Anthropology 125 Native Americans in the U.S.

Unit(s): 3.0

Class Hours: 48 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. CSU/UC

ART (ART)

Art 009

Art Lab

Unit(s): 0.5

Class Hours: 24 Laboratory 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. May be repeated. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Art 010

Advanced Art Lab

Unit(s): 0.5

Class Hours: 24 Laboratory 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. May be repeated. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Art 011

Intro to 3D Modeling & Animation

Unit(s): 0.5

Class Hours: 8 Lecture, 4 Laboratory 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.

Art 100 (C-ID ARTH 100)

Introduction to Art Concepts

Unit(s): 3.0

Class Hours: 48 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: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

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: 48 Lecture total.

Recommended Preparation: Completion of or concurrent enrollment in English 101 or English 101H.

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: 48 Lecture total.

Recommended Preparation: English 101 or English 101H is recommended.

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

Formerly: African Art History

Unit(s): 3.0

Class Hours: 48 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: 48 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: 48 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: 48 Lecture total.

Recommended Preparation: English 101 or English 101H with a minimum grade of C.

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: 48 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

Art 108**Contemporary Art History: Art Since Mid-Twentieth Century**

Unit(s): 3.0

Class Hours: 48 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 110 (C-ID ARTS 100)**Two-Dimensional Design**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory 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 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: 32 Lecture, 64 Laboratory 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 111 may be taken a maximum of four enrollments. CSU/UC

Art 121A**Fundamentals of Typography**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory 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. Art 122, 162, 191A, 192A recommended. CSU

Art 121B**Advanced Typography**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory 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. CSU

Art 122**Graphic Design I**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory 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, 121B, 122, and 221 may be taken a maximum of four enrollments. CSU

Art 124**Gallery Production**

Unit(s): 2.0

Class Hours: 96 Laboratory 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. May be repeated. Grade: Pass/No Pass Only. Open Entry/Open Exit. CSU

Art 125**Cooperative Work Experience - Occupation**

Unit(s): 1.0 - 6.0

Class Hours: 60 - 450 Laboratory 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. Grade: Pass/No Pass Only. Open Entry/Open Exit. CSU

Art 129**Introduction to Web Design**

Unit(s): 3.0

Class Hours: 48 Lecture, 16 Laboratory total.

Introduction to the development and design of web sites with an emphasis on the elements and principles of design as they relate to web interfaces. Includes learning the technical requirements for colors, fonts, file optimization, effects, image resolution, and special effects. Includes creative Web design projects. CSU/UC

Art 130 (C-ID ARTS 110)**Introduction to Drawing**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.

Introductory course in expressive drawing exploring line, form, composition, and a variety of media. Drawing from man-made objects and natural forms. Required for art majors. A combination of Art 130, 230, and 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: 32 Lecture, 64 Laboratory total.

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. Art 130 recommended. A combination of Art 131, 231, 232, and 243 may be taken a maximum of four enrollments. CSU/UC

Art 132A**Beginning Pastel Drawing and Painting**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory 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 132B may be taken a maximum of four enrollments. CSU/UC

Art 132B**Intermediate Pastel Drawing and Painting**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory 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 132B may be taken a maximum of four enrollments. CSU/UC

**Art 140A****Watercolor Painting**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory 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, 140B, 143, and 240 may be taken a maximum of four enrollments. CSU/UC

Art 140B**Watercolor Painting**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory 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. May be repeated. A combination of Art 140A, 140B, 143, and 240 may be taken a maximum of four enrollments. CSU/UC

Art 141**Beginning Painting**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.

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. Art 110 and 130 recommended. A combination of Art 141, 241, and 242 may be taken a maximum of four enrollments. CSU/UC

Art 143**Landscape Watercolor**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory 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, 140B, 143, and 240 may be taken a maximum of four enrollments. CSU/UC

Art 150**Primitive Pottery Techniques**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory 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: 32 Lecture, 64 Laboratory 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, 152, and 153 may be taken a maximum of four enrollments. CSU/UC

Art 152**Ceramics-Intermediate Throwing**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory 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, 152, and 153 may be taken a maximum of four enrollments. CSU/UC

Art 153**Ceramics-Intermediate Handbuilding**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory 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, 152, and 153 may be taken a maximum of four enrollments. CSU/UC

Art 154**Ceramics Summer Workshop**

Unit(s): 3.0

Class Hours: 24 Lecture, 72 Laboratory 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: 32 Lecture, 64 Laboratory 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 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: 32 Lecture, 64 Laboratory 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, 159A, and 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: 32 Lecture, 64 Laboratory 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 157 may be taken a maximum of four enrollments. CSU/UC

Art 158**Ceramic Mural Project**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.

Prerequisite: Art 151 with a minimum grade of C.

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: 32 Lecture, 64 Laboratory 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, 159A, and 159B may be taken a maximum of four enrollments. CSU/UC

Art 159B**Ceramic Color Decoration: High Temperature**
Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory 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 sigillata. A combination of Art 156, 159A, and 159B may be taken a maximum of four enrollments. CSU/UC

Art 162**Digital Design With Photoshop-I**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.
Prerequisite: Art 195 with a minimum grade of C or portfolio approval.

An introduction to using Photoshop for Web, print, illustration and 3D. Instruction in capturing, manipulating, and outputting images. Focus on basic skills and techniques for editing and enhancing photographs, manipulating scanned images, and creating digital graphics. Application of technology skills using design to create digital composites. A combination of Art 191A, 192A, and 162 may be taken a maximum of four enrollments. CSU/UC

Art 164**Web Design**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.
Prerequisite: Art 129 or Art 195 with a minimum grade of C or portfolio approval.

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

Art 165**3D Character Animation**

Unit(s): 3.0

Class Hours: 48 Lecture, 48 Laboratory total.
Prerequisite: Art 197A or TV/Video Communications 185 with a minimum grade of C.

Instruction in theories and practice of character animation using 3D software. May be repeated. A combination of Art 165, 167, and 185 may be taken a maximum of four enrollments. CSU

Art 166**Creating Realism With Textures and Lights**

Unit(s): 3.0

Class Hours: 48 Lecture, 48 Laboratory total.
Prerequisite: Art 196A or TV/Video Communications 181 with a minimum grade of C or Art 162 with a minimum grade of C and portfolio review.

Instruction in methods used to achieve realistic looking surface textures and lighting effects in digital 3D scenes for film and video games using Photoshop and 3D Studio Max. May be repeated. A combination of Art 166 and 180 may be taken a maximum of four enrollments. CSU

Art 167**3D Commercial Applications**

Unit(s): 3.0

Class Hours: 48 Lecture, 48 Laboratory total.
Prerequisite: Art 197A or TV/Video Communications 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. May be repeated. A combination of Art 165, 167, and 185 may be taken a maximum of four enrollments. CSU

Art 168**Digital Media: Portfolio and Business Strategies**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.
Prerequisite: Art 122 with a minimum grade of C or portfolio review.

Creation of digital portfolios, career planning, and business operations for employment or continued education. Students will identify job markets, define career goals, develop resumes, create portfolios for print and/or Web, and develop interviewing skills. Includes overview of business requirements for working with customers. Art 162, 191A, 192A recommended. CSU

Art 180**Video Game and Interactive Media Art**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory 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. May be repeated. A combination of Art 166 and 180 may be taken a maximum of four enrollments. CSU

Art 182**Introduction to Jewelry**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.

Basic instruction in jewelry fabrication including silver soldering, direct casting and forging, patinas, cold connection, and piercing. May be repeated. A combination of Art 182, 284, and 285 may be taken a maximum of four enrollments. CSU

Art 184**Art of Animation I**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory 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, 167, 184, and 185 may be taken a maximum of four enrollments. CSU/UC

Art 185**Fundamentals of Cartooning and Storyboarding**

Unit(s): 3.0

Class Hours: 24 Lecture, 48 Laboratory total.

Introduction to basic cartooning, character development, and storyboarding 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, 167, and 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: 32 Lecture, 64 Laboratory 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**Digital Publishing With Indesign**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.

Prerequisite: Art 195 with a minimum grade of C.

An introduction to digital publishing and page layouts including experience in design and development of single and multiple page documents. Also includes advanced technique in complex documents and web-ready pages using InDesign software. A combination of Art 191A, 192A, and 162 may be taken a maximum of four enrollments. CSU

Art 192A**Digital Illustration With Illustrator**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.

Prerequisite: Art 195 with a minimum grade of C.

An introduction to design and illustration techniques using Adobe Illustrator software on the Macintosh. Instruction in commonly used professional industry topics and techniques for print, animation, and the Web. A combination of Art 191A, 192A, and 162 may be taken a maximum of four enrollments. CSU/UC

Art 193**Motion Graphics with Adobe After Effects**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory 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 Same as TV/Video Communications 193.) CSU

Art 195 (C-ID ARTS 250)**Introduction to Digital Media Arts**

Unit(s): 3.0

Class Hours: 48 Lecture, 16 Laboratory total.

Introduction to digital media arts for artists, photographers, Web designers, programmers, and animation artists. Includes an overview of Photoshop, Illustrator, InDesign, digital graphics terminology, careers, market applications, and design components. Work in computer lab with scanners, printers, CD ROM's and the Web. CSU/UC

Art 196A**3D Modeling Fundamentals**

Unit(s): 5.0

Class Hours: 48 Lecture, 96 Laboratory 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 197A may be taken a maximum of four enrollments. CSU/UC

Art 197A**3D Animation Fundamentals**

Unit(s): 5.0

Class Hours: 48 Lecture, 96 Laboratory 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 197A may be taken a maximum of four enrollments. CSU/UC

Art 198**Topics**

Unit(s): 0.0

Class Hours: 0 Lecture, 0 Laboratory total.

Topics of special interest offered to meet the interests and needs of students of art. CSU/UC

Art 221**Graphic Design II**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.

Prerequisite: Art 122 with a minimum grade of C.

Intermediate level study of concepts in graphic design to assist the artist/designer in formulating aesthetic and purposeful visual communications, from roughs through finished art. Creative development of solutions to problems in common print media and other design applications. Explores the combination of images and text, using hand skills, digital technology and current graphics industry standards and practices. CSU

Art 230 (C-ID ARTS 205)**Intermediate Drawing**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.

Prerequisite: Art 130 with a minimum grade of C.

Continued study in drawing with additional opportunities in graphic expression. Further exploration of media including colored pencils, oil pastel, charcoal, and mixed media. Continuation of composition concepts with emphasis on individual expression. A combination of Art 130, 230, and 233 may be taken a maximum of four enrollments. CSU/UC

Art 231**Intermediate Life Drawing**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory 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, 231, 232, and 243 may be taken a maximum of four enrollments. CSU/UC

Art 232**Advanced Life Drawing**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.

Prerequisite: Art 231 with a minimum grade of C.

Intensive study of the figure with further development of drawing skills, composition, technique, and media utilizing the live model. Projects vary each semester. A combination of Art 131, 231, 232, and 243 may be taken a maximum of four enrollments. CSU/UC

**Art 233****Advanced Drawing**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.
Prerequisite: Art 230 with a minimum grade of C or portfolio review.

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. Field trips to artists' studios and museums. A combination of Art 130, 230, and 233 may be taken a maximum of four enrollments. CSU/UC

Art 240**Intermediate Watercolor**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory 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, 140B, 143, and 240 may be taken a maximum of four enrollments. CSU/UC

Art 241**Intermediate Painting**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory 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, 241, and 242 may be taken a maximum of four enrollments. CSU/UC

Art 242**Advanced Painting**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory 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, 241, and 242 may be taken a maximum of four enrollments. CSU/UC

Art 243**Portrait and Life Painting**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory 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, 231, 232, and 243 may be taken a maximum of four enrollments. CSU/UC

Art 251**Ceramics-Advanced Throwing and Handbuilding**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory 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: 32 Lecture, 64 Laboratory 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: 32 Lecture, 64 Laboratory 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: 32 Lecture, 64 Laboratory 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 282 and 283 may be taken a maximum of four enrollments. CSU

Art 283**Jewelry III**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory 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. May be repeated. A combination of Art 282 and 283 may be taken a maximum of four enrollments. CSU

Art 284**Introduction to Stone Setting-Jewelry**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory 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, 284, and 285 may be taken a maximum of four enrollments. CSU

Art 285**Introduction to Enameling-Jewelry**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory 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, 284, and 285 may be taken a maximum of four enrollments. CSU



Art 291
Mural Painting and Design II

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory 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: 32 Lecture, 64 Laboratory 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: 16 Lecture, 40 Laboratory 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 - 2.5

Class Hours: 0.50 Lecture, 20 Laboratory 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. Grade: Pass/No Pass Only. Open Entry/Open Exit. CSU

ASIAN AMERICAN STUDIES (ASIA)

Asian American Studies 101

Introduction to Asian American Studies

Unit(s): 3.0

Class Hours: 48 Lecture total.

An interdisciplinary survey of Asian American communities through examination of the various immigration histories, cultural backgrounds, images in literature and art, social movements, and contemporary issues. CSU/UC

ASTRONOMY (ASTR)

Astronomy 109

Introduction to the Solar System

Unit(s): 3.0

Class Hours: 48 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

Astronomy 110

Introduction to Stars and Galaxies

Unit(s): 3.0

Class Hours: 48 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 structures and changes. CSU/UC

Astronomy 110H

Honors Introduction to Stars and Galaxies

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: High school or college GPA of 3.0 or above.

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

Astronomy 140

Astronomy Laboratory

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Astronomy 109 or 110 or 110H with a minimum grade of C or concurrent enrollment.

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

Astronomy 198

Topics

Unit(s): 0.5 - 4.0

Class Hours: 8 Lecture, 8 Laboratory total.

Specialized courses on topics in astronomy. CSU/UC

AUTOMOTIVE TECHNOLOGY (AUTO)

Automotive Technology 102

Auto Essentials

Formerly: Automotive Technology 002, Essentials

Unit(s): 3.0

Class Hours: 48 Lecture total.

Intended for automotive majors.

Introduction to the primary automotive systems used on modern vehicles. Theory, parts nomenclature, and description of system operation are emphasized. CSU

Automotive Technology 106

Automotive Maintenance

Formerly: Automotive Technology 006, Automotive Maintenance

Unit(s): 4.0

Class Hours: 48 Lecture, 64 Laboratory 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

Automotive Technology 108

Oxyacetylene-Arc Welding

Unit(s): 3.0

Class Hours: 16 Lecture, 96 Laboratory total.

Technical knowledge and basic skills needed for occupational oxyacetylene and arc welding processes and applications. Students must furnish safety equipment. (Same as Diesel 108 and Welding 108.) CSU

Automotive Technology 122

Electronics Fundamentals

Formerly: Automotive Technology 022, Electronics Fundamentals

Unit(s): 5.0

Class Hours: 64 Lecture, 64 Laboratory 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

**Automotive Technology 124****Electrical Systems**

Formerly: Automotive Technology 024, Electrical Systems

Unit(s): 5.0

Class Hours: 64 Lecture, 64 Laboratory 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

Automotive Technology 132**Engine Performance**

Formerly: Automotive Technology 032,

Tune-Up

Unit(s): 5.0

Class Hours: 64 Lecture, 64 Laboratory 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

Automotive Technology 143**Automatic Transmission Service**

Formerly: Automotive Technology 043,

Automatic Transmission Service

Unit(s): 4.0

Class Hours: 32 Lecture, 96 Laboratory 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

Automotive Technology 144**Manual Drive Train and Axles**

Formerly: Automotive Technology 044, Power Train Service

Unit(s): 4.0

Class Hours: 32 Lecture, 96 Laboratory 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

Automotive Technology 145**Advanced Drive Train Systems**

Unit(s): 5.0

Class Hours: 64 Lecture, 64 Laboratory total.

Recommended Preparation: Automotive Technology 043 with a minimum grade of C. 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

Automotive Technology 153**Brakes**

Formerly: Automotive Technology 053, Brakes

Unit(s): 4.5

Class Hours: 48 Lecture, 80 Laboratory 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

Automotive Technology 154**Steering and Suspension Service**

Formerly: Automotive Technology 054, Front Ends

Unit(s): 4.5

Class Hours: 48 Lecture, 80 Laboratory total. Theory, 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

Automotive Technology 160**Foundations of Mobile Air Conditioning and Refrigeration**

Unit(s): 5.0

Class Hours: 64 Lecture, 64 Laboratory 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 EPA 608 and 609 exams are covered. Students must furnish approved safety glasses. This course assists the student in preparation for the A7, T7 and H7 ASE exams. (Same as Diesel 160.) CSU

Automotive Technology 161**Automotive Air Conditioning, Heating and Ventilation Systems**

Unit(s): 5.0

Class Hours: 64 Lecture, 64 Laboratory 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

Automotive Technology 172**Engine Diagnosis and Maintenance**

Formerly: Automotive Technology 072, General Automotive Engine Service

Unit(s): 4.5

Class Hours: 48 Lecture, 80 Laboratory total.

The course deals with the diagnosis and maintenance of modern automotive engines and accessories, primarily while in the vehicle. The safe and correct use of engine testing equipment with hands-on practice is emphasized. Students will furnish approved safety glasses. This course assists the student in preparation for the A1 (Engine Repair) ASE certification exam. CSU

Automotive Technology 176**Engine Repair**

Formerly: Automotive Technology 076,

Engine Repair

Unit(s): 4.5

Class Hours: 48 Lecture, 80 Laboratory 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

Automotive Technology 185**Basic Clean Air Car Course**

Formerly: Automotive Technology 085, Basic Clean Air Car Course

Unit(s): 5.0

Class Hours: 80 Lecture 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 Technician Exam. Grade: Pass/No Pass Only. CSU



Automotive Technology 186
Advanced Clean Air Car Course
Formerly: Automotive Technology 086,
Advanced Clean Air Car Course

Unit(s): 2.0

Class Hours: 32 Lecture total.

This is the Bureau of Automotive Repair (B.A.R.) certified Advanced Clean Air Car Course. This course fulfills one of the requirements to take the State Smog Technician Exam. Grade: Pass/No Pass Only. CSU

Automotive Technology 187
BAR Specified Diagnostic and Repair

Unit(s): 5.0

Class Hours: 80 Lecture 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. Grade: Pass/No Pass Only. CSU

Automotive Technology 280
Computer Control and OBD-2 Foundations
Formerly: Automotive Technology 080,
Computer Controls

Unit(s): 3.0

Class Hours: 48 Lecture 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

Automotive Technology 281
Fuel Injection Systems
Formerly: Automotive Technology 081,
Fuel Injection Systems

Unit(s): 3.0

Class Hours: 48 Lecture 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

Automotive Technology 282
Automotive Sensors
Formerly: Automotive Technology 082,
Automotive Computer Sensors

Unit(s): 3.0

Class Hours: 48 Lecture 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

Automotive Technology 283
Diagnostic Test Equipment
Formerly: Automotive Technology 083,
Diagnostic Test Equipment

Unit(s): 3.0

Class Hours: 48 Lecture 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

Automotive Technology 284
OBD-2 Diagnosis and Networks
Formerly: Automotive Technology 084,
OBD-2 Diagnosis and Networks

Unit(s): 3.0

Class Hours: 48 Lecture 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

Automotive Technology 285
Hybrid Vehicles

Unit(s): 3.0

Class Hours: 48 Lecture total.

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

Automotive Technology 287
Alternative Fuels

Unit(s): 3.0

Class Hours: 48 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) training 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 Diesel 287.) CSU

Automotive Technology 288
Diesel Engines: Light-Medium Duty Systems

Unit(s): 3.0

Class Hours: 48 Lecture 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. (Same as Diesel 288.) CSU

BANKING (BANK)

Banking 010
Teller Training for Financial Institutions

Unit(s): 2.0

Class Hours: 32 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)

Biology 098

Topics

Unit(s): 0.5 - 4.0

Class Hours: 8 - 64 Lecture total.

Specialized courses on topics related to the needs of students in biology.

Biology 109

Fundamentals of Biology

Unit(s): 3.0

Class Hours: 48 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

Biology 109H

Honors Fundamentals of Biology

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

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

**Biology 109L****Fundamentals of Biology Laboratory**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Biology 109 or Biology 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

Biology 111**Marine Biology**

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory 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

Biology 115**Concepts in Biology for Educators**

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory 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. May be repeated. CSU/UC

Biology 127**Ecology**

Unit(s): 1.0

Class Hours: 16 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

Biology 128**Natural History of the California Coast**

Unit(s): 1.0

Class Hours: 16 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

Biology 129**Ecology of Southern California**

Unit(s): 1.0

Class Hours: 16 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

Biology 131**Natural History of the Southwest**

Unit(s): 3.0

Class Hours: 48 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

Biology 132**Natural History of Death Valley**

Unit(s): 1.0

Class Hours: 16 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

Biology 133**Desert Biology**

Unit(s): 1.0

Class Hours: 16 Lecture total.

Study of desert organisms, their adaptations 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

Biology 139**Health Microbiology**

Unit(s): 4.0

Class Hours: 48 Lecture, 64 Laboratory 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. Prior completion of Biology 109 or 149 recommended. CSU/UC

Biology 149**Human Anatomy and Physiology**

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory 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

Biology 169**Natural History of the Sierra Nevadas**

Unit(s): 1.0 - 3.0

Class Hours: 16 - 48 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

Biology 177**Human Genetics**

Unit(s): 3.0

Class Hours: 48 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

Biology 190**Introduction to Biotechnology**

Unit(s): 3.0

Class Hours: 48 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

**Biology 190L****Introductory Biotech Lab**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Biology 190 with a minimum grade of C or Concurrent enrollment in Biology 190.

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

Biology 191**Biotech A: Basic Skills**

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory 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

Biology 192**Biotech B: Proteins**

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory total.

Prerequisite: Biology 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

Biology 193**Biotech C: Nucleic Acids**

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory total.

Prerequisite: Biology 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, fluorescence in situ hybridization, and Southern blot analysis, and in vitro transcription. Compliance with industry standards and regulations will be incorporated into course procedures. CSU

Biology 194**Quality and Regulatory Compliance in Biosciences**

Unit(s): 2.0

Class Hours: 32 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

Biology 195**Biotech: Qc Microbiology**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Prerequisite: Biology 229 with a minimum grade of C.

This course will cover the skills necessary to work in a regulated quality control microbiology laboratory. CSU

Biology 197**STEM Internship/Work Experience**

Unit(s): 1.0 - 16.0

Class Hours: 60 - 1200 Lecture 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. Grade: Pass/No Pass Only. Open Entry/Open Exit. CSU

Biology 200**Environment of Man**

Unit(s): 3.0

Class Hours: 48 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

Biology 202**Cell Culture Techniques**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Prerequisite: Biology 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

Biology 211 (C-ID BIOL 190)**Cellular and Molecular Biology**

Unit(s): 5.0

Class Hours: 48 Lecture, 96 Laboratory total.

Prerequisite: Mathematics 080 or 081 or 84 and Chemistry 219 or 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



Biology 212 (C-ID BIOL 130S = BIOL 212 + BIOL 214)

Animal Diversity and Ecology

Unit(s): 5.0

Class Hours: 48 Lecture, 96 Laboratory total.
Prerequisite: Biology 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

Biology 214 (C-ID BIOL 130S = BIOL 212 + BIOL 214)

Plant Diversity and Evolution

Unit(s): 5.0

Class Hours: 48 Lecture, 96 Laboratory total.
Prerequisite: Biology 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

Biology 217

Pathophysiology

Unit(s): 2.0

Class Hours: 32 Lecture total.
Prerequisite: Biology 149, 239 or 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

Biology 229

General Microbiology

Unit(s): 5.0

Class Hours: 48 Lecture, 96 Laboratory total.
Prerequisite: Biology 109/109H and 109L, or 139, or 149, or 211, or 239, or 249, or Chemistry 119 or Chemistry 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

Biology 239 (C-ID BIOL 110B)

General Human Anatomy

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory 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

Biology 249 (C-ID BIOL 120B)

Human Physiology

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory total.
Prerequisite: Biology 239 with a minimum grade of C or similar Human Anatomy course.

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

Biology 259

Environmental Biology

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory 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

Biology 290

Biochemistry and Molecular Biology

Unit(s): 5.0

Class Hours: 48 Lecture, 96 Laboratory total.
Prerequisite: Biology 211 and Chemistry 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)

Black Studies 101

Introduction to Black Studies

Unit(s): 3.0

Class Hours: 48 Lecture total.

A course designed to present a foundation in African American history for subsequent course work leading to a degree in Black Studies and/or Ethnic Studies. This course will highlight the significant contributions of African Americans to the history of America in the areas of history, literature, arts, science, and technology. CSU/UC

BUSINESS (BUS)

Business 80

Business Mathematics

Unit(s): 3.0

Class Hours: 48 Lecture total.

Business math applications including review of fractions, decimals, percents, banking, discounts, markups, payroll, interest calculation, installment buying, mortgages, depreciation, taxes, insurance, stocks, bonds, and mutual funds.

Business 100 (C-ID BUS 110)

Fundamentals of Business

Unit(s): 3.0

Class Hours: 48 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

Business 101 (C-ID BUS 125)

Business Law

Unit(s): 3.0

Class Hours: 48 Lecture total.

Fundamental legal principles pertaining to business transactions. Introduction to the legal process. Topics include sources of law and ethics, contracts, torts, agency, criminal law, business organizations, and judicial and administrative processes. CSU/UC

Business 103

Cooperative Work Experience-Occupational Education-Occupational

Unit(s): 1.0 - 4.0

Class Hours: 60 - 300 Lecture 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. Grade: Pass/No Pass Only. Open Entry/Open Exit. CSU

**Business 104****Cooperative Work Experience-General Education-General**

Unit(s): 1.0 - 4.0

Class Hours: 60 - 300 Lecture 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. Grade: Pass/No Pass Only. Open Entry/Open Exit. CSU

Business 105 (C-ID BUS 120)**Legal Environment of Business**

Unit(s): 3.0

Class Hours: 48 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. CSU/UC

Business 106**Culture and International Business-Kiss, Bow Or Shake Hands**

Unit(s): 3.0

Class Hours: 48 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

Business 110**Export Pricing, Quotations and Terms of Trade**

Unit(s): 1.0

Class Hours: 16 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

Business 111**International Business Documentation-Beginning**

Unit(s): 1.0

Class Hours: 16 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

Business 113**International Transportation**

Unit(s): 1.0

Class Hours: 16 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

Business 114**International Documentation and Supply Chain Management**

Unit(s): 1.0

Class Hours: 16 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

Business 120**Principles of Management**

Unit(s): 3.0

Class Hours: 48 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

Business 121**Human Relations and Organizational Behavior**

Unit(s): 3.0

Class Hours: 48 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

Business 125**Introduction to International Business**

Unit(s): 3.0

Class Hours: 48 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

Business 127**Introduction to E-Commerce**

Unit(s): 3.0

Class Hours: 48 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. CSU

Business 130**Personal Finance**

Unit(s): 3.0

Class Hours: 48 Lecture total.

This course is an integrative approach to personal finance focusing on practical financial decision making as well as the social, psychological, and physiological contexts in which those decisions are made. Students will examine their relationships with money, set personal goals, and develop a plan to meet those goals. Topics include consumerism, debt, healthcare, investing, retirement, long-term care, disability, death, and taxes. CSU

Business 140**Principles of Finance**

Unit(s): 3.0

Class Hours: 48 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

Business 141**The Globalization of Marketing**

Unit(s): 1.0

Class Hours: 16 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

Business 142**International Market Research and Planning**

Unit(s): 1.0

Class Hours: 16 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

**Business 143****Packaging, Pricing, and Promoting Products/Services for Export**

Unit(s): 1.0

Class Hours: 16 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

Business 145**Channels of Distribution in International Markets**

Unit(s): 1.0

Class Hours: 16 Lecture total.

Learn alternate methods for distributing products in international markets. 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

Business 147**International Commercial Agreements and Distribution Law**

Unit(s): 1.0

Class Hours: 16 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

Business 148**International Intellectual Property Law**

Unit(s): 1.0

Class Hours: 16 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

Business 149**The Law of Global Commerce**

Unit(s): 1.0

Class Hours: 16 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

Business 150 (C-ID ITIS 120)(C-ID BUS 140)**Introduction to Information Systems and Applications**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Introduction to computer concepts and management information systems. Application software will be used to solve business problems. CSU/UC

Business 160**Introduction to Stock and Bond Investments**

Unit(s): 3.0

Class Hours: 48 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

Business 163**International Methods of Payment and Letters of Credit**

Unit(s): 1.0

Class Hours: 16 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

Business 164**Alternative Financing Techniques for International Trade**

Unit(s): 1.0

Class Hours: 16 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

Business 165**International Trade Finance and Insurance**

Unit(s): 1.0

Class Hours: 16 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

Business 166**Financing an Import/Export Business**

Unit(s): 1.0

Class Hours: 16 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

Business 170**Principles of Small Business Management**

Unit(s): 3.0

Class Hours: 48 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

Business 180**Finding and Evaluating Products for Import**

Unit(s): 1.0

Class Hours: 16 Lecture total.

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. CSU

Business 182**Classifying Imports and Clearing U.S. Customs**

Unit(s): 1.0

Class Hours: 16 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

Business 183**Customs Broker License Class**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Gain in-depth knowledge of import regulations, tariff schedules, and customs law in order to become a customs broker. Learn the concepts covered in the Homeland Security Customs Broker Examination. CSU

Business 184**Customs Broker Exam Prep Class**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prepare for the customs broker exam. Designed to help students study for the Homeland Security Customs Broker Exam. CSU

**Business 222 (C-ID BUS 115)****Business Writing**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: English 101 or 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)**Business Applications 017****Business Writing Skills**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Comprehensive up-to-date usage of grammar including punctuation, capitalization, number style, spelling, vocabulary development, and other business writing skills. Designed for today's administrative assistant, secretary, word processor, or other office worker.

Business Applications 018**Office Procedures**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Develop skills for the automated office including interpersonal relations, administrative support, office communication, and work management. Provides instruction in adapting to the changing office environment, including problem solving and team atmosphere.

Business Applications 035**Computer Fundamentals**

Unit(s): 1.5

Class Hours: 24 Lecture total.

Introduction to computer hardware components, software applications, multimedia, and the use of the Internet.

Business Applications 043**Microsoft Certified Application Specialist****Preparation**

Unit(s): 0.5

Class Hours: 8 Lecture total.

Prepares students to take the Microsoft Certified Application Specialist (MCAS) certification exams. Students choose practice programs that replicate actual MCAS exams for Word, Excel, PowerPoint, Access and/or Outlook. May be repeated. Grade: Pass/No Pass Only.

Business Applications 049**Introduction to Microsoft Access**

Unit(s): 1.5

Class Hours: 24 Lecture total.

Introduction to Microsoft Access, a database program which teaches how to create, design, and use databases.

Business Applications 051**Introduction to Spanish Bilingual Interpreting**

Unit(s): 3.0

Class Hours: 48 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.

Business Applications 056**General Foundation for Bilingual Business Interpretation-Spanish/English**

Unit(s): 3.0

Class Hours: 48 Lecture total.

A course designed to give general foundations for interpreting and translating in Spanish and English for government and private businesses. Fluency in Spanish and English strongly recommended.

Business Applications 057**Medical Interpretation and Translation-Spanish/English**

Unit(s): 3.0

Class Hours: 48 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.

Business Applications 058**Legal Interpretation and Translation-Spanish/English**

Unit(s): 3.0

Class Hours: 48 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.

Business Applications 066**Microsoft Outlook**

Unit(s): 1.5

Class Hours: 24 Lecture total.

Instruction in the use of Microsoft Outlook, a personal information management program used to communicate with others, schedule appointments and tasks, record information about personal and business contacts, and organize files.

Business Applications 110A**Computer Keyboarding Skills I**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Proficiency based keyboarding skills includes alphabet, speed, and accuracy development. Open Entry/Open Exit. CSU

Business Applications 110B**Computer Keyboarding Skills II**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Business Applications 110A with a minimum grade of C.

Continuation and refinement of proficiency based computer keyboarding skills includes alphabet and numeric keyboard, speed and accuracy development, and basic word processing skills. Open Entry/Open Exit. CSU

Business Applications 115A**Computer Keyboarding Speed and Accuracy Development I**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Intense review of letter, number, and symbol typing. Emphasis on individual's problem keys. Increase keyboarding speed and improve accuracy through prescribed drills and timed writings on computer. Basic proficiency in typing or keyboarding recommended. Open Entry/Open Exit. CSU

Business Applications 115B**Computer Keyboarding Speed and Accuracy Development II**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Business Applications 115A with a minimum grade of C.

Refinement of letter, number, and symbol typing. Emphasis on individual's problem keys. Increase keyboarding speed and improve accuracy through prescribed drills and timed writings on computer. Open Entry/Open Exit. CSU

Business Applications 120**Administrative Office Management**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Introduces the fundamentals of effective management including basic principles of office management, problem solving, systems thinking, communications, information technology, the ergonomic environment, managing human resources, and office productivity. CSU

Business Applications 125**Microsoft Word Basics**

Unit(s): 1.5

Class Hours: 24 Lecture total.

Basic procedures for creating, editing, and manipulating documents of varying sophistication using Microsoft Word software. CSU



Business Applications 147
Introduction to Windows

Unit(s): 1.5

Class Hours: 24 Lecture total.

The fundamentals of Windows graphical user interface including Help, launching applications, and managing files and folders using My Computer and Windows Explorer. Additional topics include WordPad and customizing Windows using Control Panel. CSU

Business Applications 148
Advanced Windows

Unit(s): 1.5

Class Hours: 24 Lecture total.

Continued instruction in Microsoft Windows features. Topics include using the Internet and multimedia; working with digital photos and music; networking and system maintenance; adding software and hardware and troubleshooting your system. CSU

Business Applications 150 (C-ID GEOG 155)
Introduction to Geographic Information Systems

Unit(s): 3.0

Class Hours: 48 Lecture, 16 Laboratory total.

Learn to use Geographic Information Systems (GIS). Course covers mapping and spatial analysis capabilities of ArcView software. Students are introduced to GIS, basic cartographic principles and will learn to use ArcView to view relationships, patterns, or trends by plotting data on maps, and its role in analysis and decision-making. CSU/UC

Business Applications 151
Intermediate Geographic Information Systems

Unit(s): 3.0

Class Hours: 48 Lecture total.

This course is a continuation of the ArcView skills and concepts learned in Introduction to Geographic Information Systems (GIS). It is based on the mapping and spatial analysis capabilities of ArcView software. Students will be creating and editing spatial data, geocode data, perform spatial data processing and conduct spatial analysis. CSU

Business Applications 160
Microsoft Publisher

Unit(s): 3.0

Class Hours: 48 Lecture total.

Easy-to-use desktop publishing program that guides you through the process of creating brochures, newsletters, invitations, and flyers. Create professional-looking documents without graphic design training. Use a scanner to incorporate graphics in your documents. CSU

Business Applications 163
Adobe Acrobat

Unit(s): 3.0

Class Hours: 48 Lecture total.

Learn to use Adobe Acrobat Pro software to create, secure, optimize, and distribute interactive PDF documents for print and web. Course covers document review features to add comment and editing notes and electronic signatures used by most departments in an office based on current business standards. CSU

Business Applications 164
Adobe Photoshop

Formerly: Introduction to Adobe Photoshop

Unit(s): 3.0

Class Hours: 48 Lecture total.

Learn how to efficiently use Adobe Photoshop for photo and original artwork image editing for print and web projects based on current industry standards and methods. Topics include graphics terminology, color correction, photo repair and restoration, proper file setup and export, masking, filters, channels, and special effects. CSU

Business Applications 166
Adobe Illustrator

Unit(s): 3.0

Class Hours: 48 Lecture total.

Learn how to use Adobe Illustrator to digitally create, manipulate, and export vector based graphic images, illustrations, drawings, logos, business cards, and simple page layout for print and Web projects based on current industry standards and methods. CSU

Business Applications 167
Adobe Photoshop Applications

Unit(s): 3.0

Class Hours: 48 Lecture total.

Students will learn how to use advanced features of Photoshop and how to integrate the results with other computer and digital programs in order to create a project ready for real world application. Students should have prior knowledge of Photoshop software. CSU

Business Applications 169
Adobe Dreamweaver

Unit(s): 3.0

Class Hours: 48 Lecture total.

Learn to use Adobe Dreamweaver to create professional Web sites for mobile, tablet, and desktop devices using current industry standards and methods. The course includes site mapping, wireframes, search engine optimization (SEO) techniques, HTML5, XHTML, responsive fluid design, cascading style sheets (CSS), links, proper setup of Web images, cross-browser testing, and publishing. CSU

Business Applications 170
Adobe InDesign

Unit(s): 3.0

Class Hours: 48 Lecture total.

Learn how to use Adobe InDesign desktop publishing software to produce professional page layout projects such as brochures, newsletters, flyers, magazines, and books for print and web using current business standards and methods. Topics include typography, importing and linking graphics, creating and applying colors, master pages, frames, proper file setup, styles, interactivity, prepress, and preflight. CSU

Business Applications 173
Adobe Flash

Unit(s): 3.0

Class Hours: 48 Lecture total.

This course introduces multimedia design for business using Adobe Flash for web sites, banner ads, presentations, and online tutorials based on current industry standards. Topics include animation, import sound and video, ActionScript, interactivity, testing, and publishing for Flash Player or directly into JavaScript code for HTML5. Knowledge of Photoshop helpful. CSU

Business Applications 174
Creating Web Pages with Dreamweaver and Flash

Unit(s): 3.0

Class Hours: 48 Lecture total.

Provides instruction on designing a dynamic web site from concept to upload to a server using Dreamweaver and Flash together. Students will integrate HTML with multimedia into one web site using cascading style sheets, animation, and sound based on professional business standards and techniques. Knowledge of Word and Photoshop helpful. CSU

Business Applications 176
Microsoft Expression Web

Unit(s): 3.0

Class Hours: 48 Lecture total.

Learn how to use Microsoft Expression Web, a powerful suite of programs used to develop dynamic, interactive World Wide Web sites and Web pages. Students will learn how to work with text, images and hyperlinks; create interactivity, forms and page layouts; and publish a Web Site. CSU

Business Applications 177
Microsoft OneNote

Unit(s): 1.5

Class Hours: 24 Lecture total.

Students will learn how to use Microsoft OneNote, create, organize and manage notebooks. Students will work with audio and video files, search Notes, and integrate OneNote with Microsoft Office. CSU



Business Applications 179
Introduction to Microsoft Office

Unit(s): 4.0

Class Hours: 64 Lecture total.

Learn the basics of the Microsoft Office, suite of applications including Word, Excel, Access and PowerPoint. Acquire skills for creating, formatting, printing and editing business documents. CSU

Business Applications 180
Advanced Microsoft Office

Unit(s): 3.0

Class Hours: 48 Lecture total.

Expand your knowledge of the integrated use of Microsoft Office applications. Instruction will include the integration and advanced applications of Microsoft Office. Working knowledge of Office recommended. CSU

Business Applications 183
Microsoft Word

Unit(s): 3.0

Class Hours: 48 Lecture total.

Step-by-step procedures are taught for creating, editing, and printing business documents with Microsoft Word. Ability to type is recommended. CSU

Business Applications 184
Advanced Microsoft Word for the Workplace

Unit(s): 3.0

Class Hours: 48 Lecture total.

Step-by-step procedures for using the desktop publishing features of Microsoft Word to create workplace documents. CSU

Business Applications 185
Real World Microsoft Office Projects

Unit(s): 3.0

Class Hours: 48 Lecture total.

Integration of the Microsoft Office programs including Word, Excel, PowerPoint, Access, and Outlook. Students work in a simulated business organization to complete project-based documents. Students will reinforce and build their software skills, improve Internet skills, and develop teamwork and critical-thinking skills. CSU

Business Applications 187
Graphics and Scanning

Unit(s): 1.5

Class Hours: 24 Lecture total.

Instruction in the use, conversion, and scanning of graphics for use in PC application programs. CSU

Business Applications 188
Microsoft Excel

Unit(s): 1.5

Class Hours: 24 Lecture total.

Introduction to Excel spreadsheets including formatting, graphics, charts, and formulas common to business applications. CSU

Business Applications 189
Excel Application Projects

Unit(s): 1.5

Class Hours: 24 Lecture total.

The student will apply spreadsheet theory and design to typical business related Excel projects. This course will expand student's knowledge of Excel concepts and techniques. Prepares student for Microsoft Excel Certification. Recommended experience with Excel. CSU

Business Applications 190
Microsoft PowerPoint

Unit(s): 1.5

Class Hours: 24 Lecture total.

Instruction in the essentials of presentation graphics using PowerPoint. Students will learn how to design and produce presentation material for business including transparencies, slide, and screen shows. CSU

Business Applications 191
Powerpoint-Application Projects

Unit(s): 1.5

Class Hours: 24 Lecture total.

Course will provide an opportunity to develop original presentation project for business, job or personal use. Course is designed to allow students an opportunity to expand knowledge of PowerPoint. CSU

Business Applications 192
Introduction to Microsoft Project

Unit(s): 3.0

Class Hours: 48 Lecture total.

Students will learn how to plan a project, create project schedules, communicate project information, use the critical path, assign resources, track progress, and share information across applications and the Web using Microsoft Project. CSU

CHEMISTRY (CHEM)

Chemistry 109
Chemistry in the Community

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory 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

Chemistry 115
Concepts in Physical Sciences for Educators

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory total.

Recommended Preparation: Completion of Mathematics N48 is recommended.

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. (Same as Physical Science 115.) CSU/UC

Chemistry 119
Fundamentals - General and Organic

Unit(s): 5.0

Class Hours: 64 Lecture, 48 Laboratory total.

Prerequisite: Mathematics 060 or 061 with a minimum grade of C.

No prior chemistry needed. For majors in nursing, dietetics, family and consumer studies, pharmacy technology, biology, and physical education. Includes atomic structure, nuclear chemistry, bonding, solutions, acids and bases, organic nomenclature, hydrocarbons and alcohols. CSU/UC

Chemistry 209
Introductory Chemistry

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory total.

Prerequisite: Mathematics 080 or Mathematics 081 or Mathematics 083 or Mathematics 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

Chemistry 219 (C-ID CHEM 110) (C-ID CHEM 120S = CHEM 219 or 219H + 229)
General Chemistry

Unit(s): 5.0

Class Hours: 48 Lecture, 96 Laboratory total.

Prerequisite: Mathematics 080 or Mathematics 081 or Mathematics 084 with a minimum grade of C and Chemistry 209 with a minimum grade of C 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



Chemistry 219H (C-ID CHEM 110) (C-ID CHEM 120S = CHEM 219 or 219H + 229)

Honors General Chemistry

Unit(s): 5.0

Class Hours: 48 Lecture, 96 Laboratory total. Prerequisite: Mathematics 080 or Mathematics 081 or Mathematics 084 with a minimum grade of C and Chemistry 209 with a minimum grade of C or a passing score on current chemistry placement test. Cumulative GPA of 3.0. 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

Chemistry 229 (C-ID CHEM 120S = CHEM 219 or 219H + 229)

General Chemistry and Qualitative Analysis

Unit(s): 5.0

Class Hours: 48 Lecture, 96 Laboratory total. Prerequisite: Chemistry 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

Chemistry 249 (C-ID CHEM 160S = CHEM 249 + 259)

Organic Chemistry I

Unit(s): 5.0

Class Hours: 48 Lecture, 96 Laboratory total. Prerequisite: Chemistry 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

Chemistry 259 (C-ID CHEM 160S = CHEM 249 + 259)

Organic Chemistry II

Unit(s): 5.0

Class Hours: 48 Lecture, 96 Laboratory total. Prerequisite: Chemistry 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)

Chicano Studies 101

Introduction to Chicano Studies

Unit(s): 3.0

Class Hours: 48 Lecture total.

An interdisciplinary survey of Chicano society from a sociological, economic, political, philosophical, and cultural perspective from pre-Columbian civilizations to contemporary society. This course is designed to present a foundation in Chicano history. CSU/UC

CHILD DEVELOPMENT (CDEV)

Child Development 070

Early Childhood Education: Introductory Principles and Practices (DS3)

Unit(s): 3.0

Class Hours: 48 Lecture total.

Recommended Preparation: English for Multilingual Students 055 is recommended.

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.

Child Development 107 (C-ID CDEV 100)

Child Growth and Development (DS1)

Unit(s): 3.0

Class Hours: 48 Lecture total.

This course examines the major physical, psychosocial, and cognitive/language developmental milestones for children, from conception through adolescence. Using developmental theories and research methodologies, course emphasis will be on typical and atypical development, maturational processes, and environmental factors. Students will also observe children, evaluate individual differences, and analyze characteristics of development at various stages. (No credit if student has taken Psychology 157.) CSU/UC

Child Development 108 (C-ID ECE 200)

Observation and Assessment for Early Learning and Development (DS3)

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Child Development 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

Child Development 110 (C-ID CDEV 110)

Child, Family, and Community (DS2)

Unit(s): 3.0

Class Hours: 48 Lecture total.

This class examines the developing child in a societal context, focusing on the interrelationship of family, school and community, and emphasizes historical and socio-cultural factors. Students will explore socialization processes and identity development that support and empower families by showing the importance of respectful and reciprocal relationships. CSU/UC



**Child Development 111A (C-ID ECE 120)
Principles and Practices of Teaching Young Children**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Child Development 107 and 108 with a minimum grade of C.

Negative TB Test (need to complete before observation during the course). 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. CSU

**Child Development 111B (C-ID ECE 130)
Introduction to Curriculum for Young Children**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Child Development 107, Child Development 108, and Child

Development 111A with a minimum grade of C or concurrent enrollment in Child Development 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. CSU

**Child Development 112 (C-ID ECE 220)
Health, Safety, and Nutrition for Children**

Unit(s): 3.0

Class Hours: 48 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

**Child Development 114
Careers in Teaching**

Unit(s): 1.0

Class Hours: 16 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

**Child Development 116A
Infant/Toddler Growth and Development (DS4)**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Child Development 107 and Child Development 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

**Child Development 116B
Care and Education for Infants and Toddlers (DS3)**

Unit(s): 3.0
Formerly: Programming for Infants and Toddlers (DS4)

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Child Development 107, Child Development 108, and Child Development 116A with a minimum grade of C or concurrent enrollment in Child Development 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

**Child Development 120A
Development of the School Age Child (DS5)**

Unit(s): 3.0

Class Hours: 48 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. CSU/UC

**Child Development 120B
School-Age Child Care and Recreation Activities (DS5)**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Child Development 120A with a minimum grade of C or concurrent enrollment in Child Development 120A.

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. CSU



Child Development 200
Introduction to Technology in Early Childhood Education

Unit(s): 3.0

Class Hours: 48 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

Child Development 205
Introduction to Children With Special Needs

Unit(s): 3.0

Class Hours: 48 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. CSU

Child Development 207
Supporting and Empowering Families of Children With Special Needs

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Child Development 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

Child Development 210
Creative Music Experiences for Young Children

Unit(s): 2.0

Class Hours: 32 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

Child Development 214
Creative Art Experiences for Children

Unit(s): 1.5

Class Hours: 16 Lecture, 24 Laboratory 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

Child Development 215
Administration I: Programs in Early Childhood (DS6)

Unit(s): 3.0

Class Hours: 48 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

Child Development 216
Administration II: Personnel and Leadership in Early Childhood Education (DS6)

Unit(s): 3.0

Class Hours: 48 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

Child Development 220
The Child As a Victim

Unit(s): 3.0

Class Hours: 48 Lecture total.

Exploration of battered, molested, and neglected children from five vantage points: child, law, parents, social services and educator. CSU

Child Development 221 (C-ID ECE 230)
Living and Teaching in a Diverse Society

Unit(s): 3.0

Class Hours: 48 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

Child Development 229
Brain Development and Learning

Unit(s): 2.0

Class Hours: 32 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

Child Development 230
Child Guidance and Classroom Management

Unit(s): 2.0

Class Hours: 32 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

Child Development 231
Developing Language and Literacy in Young Children

Unit(s): 3.0

Class Hours: 48 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

Child Development 232
Math and Science Methods for Early Learning Environments

Unit(s): 2.0

Class Hours: 32 Lecture total.

Introduces early learning teachers to basic math and science principles and the standards established by the National Council of Teachers of Mathematics and the National Science Content Standards for early learning environments. 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



Child Development 250
Adult Supervising and Mentoring in Early Care and Education

Unit(s): 2.0

Class Hours: 32 Lecture total.

Prerequisite: Child Development 111B or Child Development 116B 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.

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

Child Development 297 (C-ID ECE 210)
Analyzing and Applying Teacher Strategies in the Classroom

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Child Development 111B or Child Development 116B or Child Development 120B 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.

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

Child Development 298A (C-ID ECE 210)
Practicum in Early Childhood Programs

Unit(s): 3.5

Class Hours: 32 Lecture, 75 Laboratory total.

Prerequisite: Child Development 110, Child Development 111B, Child Development 112, Child Development 200, Child Development 205, Child Development 221, Child Development 231, and Child Development 297 with a minimum grade of C. Negative TB Test.

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

Child Development 298B (C-ID ECE 210)
Practicum in Infant/Toddler Programs

Unit(s): 3.5

Class Hours: 32 Lecture, 75 Laboratory total.

Prerequisite: Child Development 110, Child Development 116B, Child Development 112, Child Development 200, Child Development 205, Child Development 221, and Child Development 297 with a minimum grade of C. Negative TB Test or xrays.

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

Child Development 299
Cooperative Work Experience Education

Unit(s): 1.0 - 4.0

Class Hours: 60 - 300 Lecture total.

Prerequisite: Six units of Child Development or Education courses completed. Students must bring transcripts to first class meeting. Failure to comply will result in student being dropped from the course.

This work experience course of supervised employment is designed to assist students to acquire career awareness and work habits in early childhood after-school programs. Credit may be accrued at the rate of one to 4 units per semester for a total of sixteen units. Additionally, students must work 75 paid hours or 60 non-paid hours per unit earned. Open Entry/Open Exit. CSU

CHINESE (CHNS)

Chinese 101

Elementary Chinese I

Unit(s): 5.0

Class Hours: 80 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

Chinese 102

Elementary Chinese II

Unit(s): 5.0

Class Hours: 80 Lecture total.

Prerequisite: Chinese 101 with a minimum grade of C or equivalent, or two years of high school Chinese with a passing grade.

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)

Communication Studies N49

Introduction to Academic Speaking Skills

Unit(s): 3.0

Class Hours: 48 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. Grade: Pass/No Pass Only.

Communication Studies N52A

Beginning American English Pronunciation Skills

Unit(s): 3.0

Class Hours: 48 Lecture total.

Instruction in pronunciation of American English sounds, identifying commonly mispronounced sounds, and common sound spelling patterns. Not applicable to associate degree. Grade: Pass/No Pass Only.

Communication Studies N52B

Intermediate American English Pronunciation Skills

Unit(s): 3.0

Class Hours: 48 Lecture total.

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.

Communication Studies N53

Advanced American English Pronunciation Skills

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: English for Multilingual Students 107 and Communication Studies N52B with a minimum grade of C.

For those who have learned the American English sound system. Intensive practice pronouncing English words, sentences with appropriate stress and intonation, and difficult sounds/sound patterns in sentences and conversations. Not applicable to associate degree.



**Communication Studies N54
Accent Reduction**

Unit(s): 1.0

Class Hours: 16 Lecture total.

Co-Requisite: Concurrent or previous enrollment in English for Multilingual Students 055, 107, 109, 110, or 112.

Individualized instruction to assist in the reduction of foreign accents. Improvement of discrimination and production of the American English sound system, melody, intonation and stress patterns. Not applicable to associate degree. Grade: Pass/No Pass Only. Open Entry/Open Exit.

**Communication Studies N59
Pronunciation Review**

Unit(s): 1.0

Class Hours: 16 Lecture total.

Review of the pronunciation system of American English. Designed for non-native speakers who have studied pronunciation, but need further practice and identification of specific needs for improvement. Grade: Pass/No Pass Only.

**Communication Studies 096
American English Listening Skills**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Designed for non-native speakers wanting to improve ability to comprehend conversations, lectures, and other forms of spoken English. Introduces basic listening skills and provides intensive listening practice. Helps prepare for transfer level courses. Completion of Communication Studies 097 recommended.

**Communication Studies 097
American English Conversational Skills**

Unit(s): 3.0

Class Hours: 48 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 or 101H. Designed for non-native speakers.

Communication Studies 101 (C-ID COMM 130)

Introduction to Interpersonal Communication

Unit(s): 3.0

Class Hours: 48 Lecture total.

Recommended Preparation: Recommended completion of or concurrent enrollment in English 101 or English 101H with a minimum grade of C.

Introduction to communication theory, listening, perception, language usage, non-verbal communication, and conflict management. CSU/UC

Communication Studies 101H (C-ID COMM 130)

Honors Introduction to Interpersonal Communication

Unit(s): 3.0

Class Hours: 48 Lecture total.

Recommended Preparation: Completion of or concurrent enrollment in English 101 or English 101H with a minimum grade of C. Prerequisite: A high school or college GPA of 3.0 or above.

Introduction to communication theory, listening, perception, language usage, non-verbal enriched approach designed for honors students. Seminar mode stresses the development of analytical thinking, writing, and speaking skills. CSU/UC

Communication Studies 102 (C-ID COMM 110)

Public Speaking

Unit(s): 3.0

Class Hours: 48 Lecture total.

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. Communication Studies 097 recommended for non-native speakers. CSU/UC

Communication Studies 103 (C-ID COMM 150)

Introduction to Intercultural Communication

Unit(s): 3.0

Class Hours: 48 Lecture total.

Recommended Preparation: Recommended Communication Studies 097 for non-native speakers.

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

Communication Studies 103H (C-ID COMM 150)

Honors Introduction to Intercultural Communication

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: High school or college GPA of 3.0 or above.

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

**Communication Studies 104
Listening**

Unit(s): 1.5

Class Hours: 24 Lecture total.

Prerequisite: Communication Studies 097 with a minimum grade of C.

For students wanting to assess and improve their current listening/responding capabilities. Emphasizes appropriate application of diverse listening skills. CSU

**Communication Studies 107
Communication for the Health Care Professional**

Unit(s): 1.5

Class Hours: 24 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

Communication Studies 140 (C-ID COMM120)

Argumentation and Debate

Unit(s): 3.0

Class Hours: 48 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

Communication Studies 145 (C-ID COMM 140)

Group Dynamics

Unit(s): 3.0

Class Hours: 48 Lecture total.

Recommended Preparation: Recommended Communication Studies 097 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



Communication Studies 151
Voice and Diction for Effective Communication

Unit(s): 3.0

Class Hours: 48 Lecture total.

Recommended Preparation:

Communication Studies 097 recommended 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

Communication Studies 152 (C-ID COMM 170)

Oral Interpretation

Unit(s): 3.0

Class Hours: 48 Lecture total.

Recommended Preparation:

Communication Studies 097 recommended 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

Communication Studies 158
Readers Theatre

Unit(s): 3.0

Class Hours: 48 Lecture total.

Oral presentation of prose and poetry; practice in speaking, reading, and analysis of literature, with training in the principles of effective ensemble delivery. Communication Studies 097 recommended for non-native speakers. CSU/UC

Communication Studies 170
Introduction to Phonetics

Unit(s): 3.0

Class Hours: 48 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

Communication Studies 206
Gender Communication

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Communication Studies 101 or 101H or 102 or 103 or 103H or 104 or 140 or 145 or 151 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

Communication Studies 206H
Honors Gender Communication

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Communication Studies 101 or 101H or 102 or 103 or 103H or 104 or 140 or 145 or 151 with a minimum grade of C and High school or college GPA of 3.0 or above.

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

Communication Studies 307
Health Communication

Unit(s): 3.0

Class Hours: 48 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.

COMMUNICATIONS & MEDIA STUDIES (CMSD)

Communications & Media Studies 102
Multimedia Storytelling

Unit(s): 3.0

Class Hours: 48 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

Communications & Media Studies 103 (C-ID JOUR 170)

Introduction to Visual Communications

Unit(s): 3.0

Class Hours: 48 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

Communications & Media Studies 105 (C-ID JOUR 100)

Mass Media and Society

Unit(s): 3.0

Class Hours: 48 Lecture total.

Exploration of the history, effects, and role of mass media in U.S. society. Examines major media forms (TV, radio, film, newspapers, magazines, ads, the Internet) in our information-conscious culture. CSU/UC

Communications & Media Studies 105H (C-ID JOUR 100)

Honors Mass Media and Society

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

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

Communications & Media Studies 110
Introduction to Creative Nonfiction

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: English 101, 101H or Communications & Media Studies 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

Communications & Media Studies 111
Media, Race and Gender

Unit(s): 3.0

Class Hours: 48 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



Communications & Media Studies 121 (C-ID JOUR 110)

Introduction to Reporting and Newswriting
Unit(s): 3.0

Class Hours: 48 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

Communications & Media Studies 123A (C-ID JOUR 130)

News Media Production

Unit(s): 4.0

Class Hours: 64 Lecture, 160 Laboratory 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

Communications & Media Studies 123B (C-ID JOUR 131)

Intermediate News Media Production

Unit(s): 4.0

Class Hours: 64 Lecture, 160 Laboratory total.

Prerequisite: Communications & Media Studies 123A with a minimum grade of C or equivalent college media course.

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 Communications & Media Studies 123A is required. Arranged laboratory hours (TBA) 10 hours per week. CSU

Communications & Media Studies 123C Advanced Intermediate News Media Production

Unit(s): 4.0

Class Hours: 64 Lecture, 160 Laboratory total.

Prerequisite: Communications & Media Studies 123B with a minimum grade of C or equivalent college media course.

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 Communications & Media Studies 123B required. Arranged laboratory hours (TBA) 10 per week. CSU

Communications & Media Studies 123D Advanced News Media Production

Unit(s): 4.0

Class Hours: 64 Lecture, 160 Laboratory total.

Prerequisite: Communications & Media Studies 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 Communications & Media Studies 123C required. Arranged laboratory hour (TBA) 10 per week. CSU

Communications & Media Studies 160 (C-ID JOUR 160)

Introduction to Photojournalism

Unit(s): 3.0

Class Hours: 48 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

Communications & Media Studies 201 Visual Reporting

Unit(s): 2.0

Class Hours: 32 Lecture, 16 Laboratory 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

Communications & Media Studies 210 (C-ID JOUR 210)

Intermediate Reporting and Newswriting

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Communications & Media Studie 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

Communications & Media Studies 222 Writing Across Media

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: English 101, 101H or Communications & Media Studies 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

Communications & Media Studies 298A Designing for Print and Digital Media

Unit(s): 3.0

Class Hours: 48 Lecture, 48 Laboratory 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



Communications & Media Studies 298B Intermediate Designing for Print and Digital Media

Unit(s): 3.0

Class Hours: 48 Lecture, 48 Laboratory total.
Prerequisite: Communications & Media Studies 298A with a minimum grade of C or upon approval of instructor.

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 Communications & Media Studies 298A is required. CSU

COMPUTER SCIENCE (CMPR)

Computer Science 100 The Computer and Society

Unit(s): 3.0

Class Hours: 48 Lecture total.

An introduction to the area of computers and their relationship to today's 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

Computer Science 104 Cooperative Work Experience Education-Occupational

Unit(s): 1.0 - 16.0

Class Hours: 60 - 1200 Lecture total.

Supervised paid or volunteer experience in student's major including new or expanded responsibilities. 75 hours of paid work or 60 hours of un-paid work equals one unit. Course may be taken 4 times for a maximum of 16 units of occupational cooperative work experience credit. Grade: Pass/No Pass Only. Open Entry/Open Exit. CSU

Computer Science 105 Visual BASIC Programming

Unit(s): 3.0

Class Hours: 48 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. CSU/UC

Computer Science 112 Java Programming

Unit(s): 3.0

Class Hours: 48 Lecture total.

Study of the Java language, its features and applications. CSU/UC

Computer Science 117 PERL Programming and CGI

Unit(s): 3.0

Class Hours: 48 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

Computer Science 118 JavaScript Programming

Unit(s): 3.0

Class Hours: 48 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

Computer Science 120 (C-ID COMP 112) Introduction to Programming

Unit(s): 3.0

Class Hours: 48 Lecture, 16 Laboratory total.

Prerequisite: Mathematics 080 or 081 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

Computer Science 121 (C-ID COMP 122) Programming Concepts

Unit(s): 3.0

Class Hours: 48 Lecture, 16 Laboratory total.

Prerequisite: Computer Science 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

Computer Science 124A MCDST Preparation

Unit(s): 3.0

Class Hours: 48 Lecture total.

Recommended Preparation: Computer Science 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

Computer Science 125 Help Desk Skills

Unit(s): 1.5

Class Hours: 24 Lecture total.

Introduction to Help Desk "soft skills," non-IT related business, 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

Computer Science 129 (C-ID COMP 142) Introduction to Computer Organization

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: Computer Science 120 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

Computer Science 131 (C-ID COMP 132) Data Structures Concepts

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Computer Science 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

Computer Science 134D Microsoft Windows 8 Operating System

Unit(s): 3.0

Class Hours: 48 Lecture total.

Microsoft Windows 8 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, configuration of the Metro UI, and utilization of cloud storage. CSU

Computer Science 135 Software Deployment Mechanisms

Unit(s): 1.5

Class Hours: 24 Lecture total.

Computer software deployment strategies in large computer systems. CSU

**Computer Science 136****Building a Small Office/Home Office Network**

Unit(s): 1.5

Class Hours: 24 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

Computer Science 137**Personal Computer Troubleshooting**

Unit(s): 3.0

Class Hours: 48 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

Computer Science 139**Configuration and Administration of Local Area Networks**

Unit(s): 1.5

Class Hours: 24 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

Computer Science 140 (C-ID COMP 152)**Discrete Structures for Computer Science**

Unit(s): 3.0

Class Hours: 48 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

Computer Science 152**HTML**

Unit(s): 3.0

Class Hours: 48 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

Computer Science 163**Microsoft Excel**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Introduction to Microsoft Excel and how it facilitates solving business problems. Covers data management and reporting using spreadsheets, charts, database tools, and macros. CSU

Computer Science 167**Microsoft Access**

Unit(s): 3.0

Class Hours: 48 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

Computer Science 168**Advanced Microsoft Access**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Advanced Relational Database Management using development using VBA, implementation in a multiuser environment and working with Access on the Internet. Computer Science 167 or equivalent experience is recommended. CSU

Computer Science 169**Structured Query Language (SQL)**

Unit(s): 3.0

Class Hours: 48 Lecture total.

The course covers database concepts and the use of SQL (Structured Query Language). Completion of Computer Science 167 or equivalent is recommended. CSU

Computer Science 170**Introduction to Oracle**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Relational database development concepts using Oracle. Includes application development using PL/SQL. CSU

Computer Science 173**Introduction to Networking Technology**

Unit(s): 3.0

Class Hours: 48 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

Computer Science 198**Topics**

Unit(s): 1.0 - 3.0

Class Hours: 16 - 48 Lecture total.

Courses on a variety of contemporary topics will be offered to meet the interests and needs of students in Computer Science. CSU

Computer Science 205**Advanced Visual Basic**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Computer Science 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

Computer Science 207A**Introduction to Business Intelligence**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Students must be familiar with basic Data Base and Spread Sheet software. Recommended course work would include courses in Access and Excel or the Business 150 course.

Understanding Business Intelligence from user, DBA, and developer perspectives. Overview of the main components that comprise the Business Intelligence Application. Practical business solutions using Microsoft and MicroStrategy. CSU

Computer Science 207B**Business Intelligence and Data Warehouse Architecture**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Computer Science 207A with a minimum grade of C.

Overview of the DWH architecture. Explore the DWH implementation cycle. Hands on study of the DWH development processes with practical end-to-end implementation using Microsoft and MicroStrategy. CSU

Computer Science 213**C# Programming**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Study of the C# programming. Topics covered include the .NET environment, object oriented programming including inheritance and polymorphism, and writing graphical user interfaces. Completion of Computer Science 121 is recommended. CSU/UC

Computer Science 214**XML Programming**

Unit(s): 3.0

Class Hours: 48 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



Computer Science 247D Windows Server 2012

Unit(s): 3.0

Class Hours: 48 Lecture total.

Installation, management, and configuration of Windows Server 2012 for managing network environments. Recommended preparation: knowledge of any client-level Windows operating system (e.g. Windows 7, Windows 8). CSU

Computer Science 248 Microsoft SQL Server

Unit(s): 3.0

Class Hours: 48 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

Computer Science 249 Microsoft Internet Information Server (IIS)

Unit(s): 3.0

Class Hours: 48 Lecture total.

Tools and methods for the deployment, management, configuration, and support of Microsoft Internet Information Server (IIS). CSU

COUNSELING (CNLS)

Counseling 021

Math Study Strategies

Unit(s): 1.0

Class Hours: 16 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. . Grade: Pass/No Pass Only.

Counseling 090

Academic Success Strategies

Unit(s): 0.5

Class Hours: 8 Lecture total.

This course is designed to develop strategies for educational goal completion. Emphasis is placed on the purpose of higher education in society and the policies, practices, and behaviors related to success in college. Students will learn to apply principles of cognitive psychology to overcoming barriers to academic progress. Grade: Pass/No Pass Only.

Counseling 100

Lifelong Understanding and Self Development

Unit(s): 2.0

Class Hours: 32 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

Counseling 103

Educational Planning

Unit(s): 0.5

Class Hours: 8 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. Grade: Pass/No Pass Only. CSU/UC

Counseling 104

Personal and Goal Development for Educational Planning

Unit(s): 1.0

Class Hours: 16 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. Grade: Pass/No Pass Only. CSU/UC

Counseling 106

Inquiries Into Higher Education

Unit(s): 1.0

Class Hours: 16 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. Grade: Pass/No Pass Only. CSU/UC

Counseling 107

The Freshman Experience

Unit(s): 3.0

Class Hours: 48 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

Counseling 110

University Transfer Research

Unit(s): 0.5 - 2.0

Class Hours: 8 - 32 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

Counseling 111

Learning Skills Development

Unit(s): 1.0

Class Hours: 16 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

Counseling 114

Careers in Teaching

Unit(s): 1.0

Class Hours: 16 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 Child Development 114.) CSU



Counseling 116
Career/Life Planning and Personal Exploration

Unit(s): 3.0

Class Hours: 48 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

Counseling 120
Assertive Self Development

Unit(s): 3.0

Class Hours: 48 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

Counseling 121
Introduction to STEM Study Skills

Unit(s): 1.0

Class Hours: 16 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. Grade: Pass/No Pass Only. CSU

Counseling 122
STEM Study Strategies

Unit(s): 1.0

Class Hours: 16 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. Grade: Pass/No Pass Only. CSU

Counseling 124
College Success and Personal Growth

Unit(s): 3.0

Class Hours: 48 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

Counseling 125
Exploring Leadership

Unit(s): 3.0

Class Hours: 48 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

Counseling 128
Introduction to Community Activism

Unit(s): 3.0

Class Hours: 48 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

Counseling 144
Reasoning and Problem Solving

Unit(s): 3.0

Class Hours: 48 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. Not open to students who are enrolled or have credit in Philosophy 144. CSU/UC

Counseling 150
Introduction to Human Services

Unit(s): 3.0

Class Hours: 48 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

Counseling 155
Skills for the Helping Professions

Unit(s): 3.0

Class Hours: 48 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

Counseling 198
Topics

Unit(s): 0.5 - 3.0

Class Hours: 8 - 48 Lecture total.

Description of the course that will appear in the class schedule. CSU

Counseling 220
The Child As a Victim
Formerly: The Child As Victim

Unit(s): 3.0

Class Hours: 48 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

Counseling N45
Orientation to College

Unit(s): 0.5

Class Hours: 8 Lecture total.

Introduction to college services and programs. Identification and exploration of programs and services designed to assist students entering college credit courses. Grade: Pass/No Pass Only.

CRIMINAL JUSTICE (CJ)

Criminal Justice 101 (C-ID AJ 110)
Introduction to Criminal Justice

Unit(s): 3.0

Class Hours: 48 Lecture total.

A survey of the philosophy and history of criminal justice system (law enforcement, courts, corrections); processes of justice from detection of crime to parole; evaluation of modern criminal justice delivery systems. CSU/UC

Criminal Justice 102 (C-ID AJ 200)
Introduction to Corrections

Unit(s): 3.0

Class Hours: 48 Lecture total.

An introductory course in adult corrections. Emphasis on laws, legal liabilities, and different philosophies used in dealing with the adult offender inside an institution. CSU

Criminal Justice 103 (C-ID AJ 120)
Concepts of Criminal Law

Unit(s): 3.0

Class Hours: 48 Lecture total.

Criminal law definitions, classifications, basic concepts, and their application to the system of justice administration. CSU/UC

**Criminal Justice 104****Prison Experience**

Unit(s): 3.0

Class Hours: 48 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 various jails and prisons in the surrounding area with follow-up analysis, discussion, and written assignments. CSU

Criminal Justice 105 (C-ID AJ 124)**Legal Aspects of Evidence**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Origin, development, and philosophy of rules of evidence; constitutional and procedural considerations affecting arrest, search and seizure; kinds and degrees of evidence and rules governing admissibility; judicial decisions interpreting individual rights. CSU

Criminal Justice 106**Coroner Death Investigations**

Unit(s): 3.0

Class Hours: 48 Lecture total.

The investigation of homicides, suicides, accidents, and natural deaths will be covered with special emphasis on evidence collection and identification. Special topics to be covered include sexual assault, arson fires, autopsy procedures, disaster response, gunshot wounds, stabbings, traffic collisions, buried bodies, and skeletal remains. CSU

Criminal Justice 107 (C-ID AJ 122)**Principles and Procedures in the Criminal Justice System**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Role, responsibilities, interrelationships of segments in justice system; law enforcement, courts, corrections, exposure to procedures from initial entry to probation and/or parole. (Same as Paralegal 107.) CSU

Criminal Justice 108 (C-ID AJ 150)**Crime Scene Investigation**

Unit(s): 3.0

Class Hours: 48 Lecture total.

An in-depth course on the collection and preservation of evidence. Special topics to be covered include fingerprinting, arson, tool marks, ballistics, D.N.A. toxicology, photography, and sketching. CSU

Criminal Justice 109 (C-ID AJ 160)**Community Interaction**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Explores roles of criminal justice practitioners and how they are perceived by the public with an emphasis on critical thinking and decision making. CSU/UC

Criminal Justice 110**Street Gangs**

Unit(s): 3.0

Class Hours: 48 Lecture total.

A course which focuses on street gangs in the U.S. with emphasis on California and the local area. Topics include but are not limited to Hispanic, Asian, African American, taggers, hate groups, and prison gangs. CSU

Criminal Justice 148**Report Writing for Criminal Justice Personnel Formerly: Criminal Justice 048, Writing Skills for Criminal Justice Personnel**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: English N60 with a minimum grade of C.

To develop practical, precise report writing techniques as well as general writing skills applicable to law enforcement and corrections. CSU

Criminal Justice 205 (C-ID AJ 140)**Criminal Investigation Principles**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Basic principles of criminal investigations. Includes aspects of working with the public, specific knowledge necessary for handling crime scenes, interviews, evidence, and surveillance. Heavy emphasis on report writing. CSU

Criminal Justice 209**Organized Crime**

Unit(s): 3.0

Class Hours: 48 Lecture total.

An in-depth study of international organized crime and its social, cultural and economic impact on white collar crime, and political corruption in the host country and the United States. Countries dealt with include, but are not limited to Italy, Sicily, Japan, China, Colombia, Mexico, former Soviet Union, Haiti, Cayman Islands, and Caribbean. CSU

Criminal Justice 210**Drug Abuse and Criminal Justice**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Study of the recognition, identification, and effects of illegal drugs: opiates, marijuana, hallucinogens, depressants, and stimulants. Emphasis will also be placed on investigation techniques, use of informants, search warrants, and treatment. CSU

Criminal Justice 220 (C-ID AJ 220)**Juvenile Delinquency and Control**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Techniques of handling juvenile offenders and victims diagnosis and referral; prevention and repression of delinquency; organization of community resources; juvenile law and juvenile court procedures. CSU

CRIMINAL JUSTICE ACADEMIES (CJA)**Criminal Justice Academies 006B****Arrest and Control Training/ACT**

Unit(s): 0.1 - 0.5

Class Hours: 1 - 3 Lecture, 3 - 21 Laboratory total.

Prerequisite: Criminal Justice Academies 099A or Criminal Justice Academies 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. Grade: Pass/No Pass Only.

Criminal Justice Academies 007A**Gangs, Cults and Hate Crimes**

Unit(s): 0.1 - 0.5.

Class Hours: 4 - 40 Laboratory total.

Prerequisite: CJA 100A 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. Grade: Pass/No Pass Only.

Criminal Justice Academies 008A**Disaster Preparedness Training**

Unit(s): 0.1 - 0.8

Class Hours: 4 - 40 Laboratory total.

Course instruction covers the federally mandated training for ICS 300 and 400, instruction for volunteers (CERT) and train the trainer for ICS 300 and 400. P.O.S.T. Approved. May be repeated. Grade: Pass/No Pass Only.



Criminal Justice Academies 008B
Corrections Supplemental Core Course

Unit(s): 5.5
 Class Hours: 89 Lecture, 7 Laboratory total.
 Prerequisite: Criminal Justice Academies 099A or Criminal Justice Academies 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. Grade: Pass/No Pass Only.

Criminal Justice Academies 009B
Fitness for Law Enforcement

Unit(s): 0.1 - 0.3
 Class Hours: 4 - 16.

Training designed specifically for law enforcement and those with an interest in entering a law enforcement basic police academy program. Grade: Pass/No Pass Only.

Criminal Justice Academies 009C
Narcotics Related Training

Unit(s): 0.1 - 0.5
 Class Hours: 4 - 24.
 Prerequisite: California P.O.S.T. Certified Peace Officer.

Course is designed to cover all aspects of narcotic enforcement: drug recognition, drug identification, drug abuse and signs of intoxication, investigations, use of informants, legal issue and search warrants. CA P.O.S.T. approved state mandated training. Grade: Pass/No Pass Only.

Criminal Justice Academies 010
Pre-Employment Preparation for Law Enforcement

Unit(s): 1.5
 Class Hours: 14.5 Lecture, 33.5 Laboratory 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. Grade: Pass/No Pass Only.

Criminal Justice Academies 010B
Supervision and Leadership

Unit(s): 0.1 - 0.8
 Class Hours: 8 - 40.
 Prerequisite: California P.O.S.T. Certified Peace Officer.

Course is designed to assist supervisor in areas of leadership, supervision skills, legal issues, and handling of work place investigations. Legally/State Mandated Training. Grade: Pass/No Pass Only.

Criminal Justice Academies 010D
Explorer Training Academy

Unit(s): 1.0 - 2.5
 Class Hours: 6 - 16 Lecture, 34 - 92 Laboratory 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 Justice Academies Coordinator. This course will prepare Law Enforcement Explorers for volunteer work at law enforcement agencies. Grade: Pass/No Pass Only.

Criminal Justice Academies 010E
Youth Academy

Unit(s): 0.5
 Class Hours: 24 Laboratory total.

This course is designed to introduce Youth Academy students to the world of law enforcement. Topics include ethical policing, community policing, and the dangers of driving under the influence. The academy consists of six Saturday sessions and is offered during the summer. Grade: Pass/No Pass Only.

Criminal Justice Academies 021
P.C. 832, Laws of Arrest

Unit(s): 1.5
 Class Hours: 27 Lecture, 13 Laboratory 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. Grade: Pass/No Pass Only.

Criminal Justice Academies 021A
PC 832 Firearms

Unit(s): 0.5
 Class Hours: 24 Laboratory 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. Grade: Pass/No Pass Only.

Criminal Justice Academies 026A
Training Academy Preparation

Unit(s): 0.3
 Class Hours: 16 Laboratory total.

This course is designed to prepare the student for the Basic Law Enforcement Academy. It will include drill, ceremony, physical training, reporting, and speeches. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Criminal Justice Academies 029A
Explosive Devices Training

Unit(s): 0.1 - 0.8
 Class Hours: 4 - 40.
 Prerequisite: California P.O.S.T. Certified Peace Officer.

Training will provide updates on explosive devices: new technology, trends, and intelligence information. Grade: Pass/No Pass Only.

Criminal Justice Academies 029B
Bomb Technician Introduction

Unit(s): 2.0
 Class Hours: 30 Lecture, 10 Laboratory total.

Prerequisite: Criminal Justice Academies 099A or Criminal Justice Academies 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. Grade: Pass/No Pass Only.



Criminal Justice Academies 029C Active Bomber Course

Unit(s): 0.5

Class Hours: 2 Lecture, 22 Laboratory total.

Prerequisite: Criminal Justice Academies 099A or Criminal Justice Academies 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. Grade: Pass/No Pass Only.

Criminal Justice Academies 029D Homemade Explosive Course

Unit(s): 0.3

Class Hours: 4 Lecture, 4 Laboratory total.

Prerequisite: Criminal Justice Academies 099A or Criminal Justice Academies 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. Grade: Pass/No Pass Only.

Criminal Justice Academies 029E Explosive Recognition and Response

Unit(s): 0.1

Class Hours: 2 Lecture, 2 Laboratory total.

Prerequisite: Criminal Justice Academies 099A or Criminal Justice Academies 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. Grade: Pass/No Pass Only.

Criminal Justice Academies 034A Advanced Officer Training (AOT)

Unit(s): 0.1 - 0.5

Class Hours: 4 - 40 Laboratory total.

Prerequisite: Criminal Justice Academies 100A or its equivalent and eligible to receive peace officer training as defined in California Government Code Section 1031.

Course is designed to cover a variety of courses that are required and meet POST training mandate: communications, ethics, legal issues, basic patrol procedures and cultural diversity. Legally/State Mandated Training. Grade: Pass/No Pass Only.

Criminal Justice Academies 038A Tactical/Weapons Training

Unit(s): 0.1 - 0.5

Class Hours: 4 - 40 Laboratory total.

Prerequisite: Criminal Justice Academies 100A or its equivalent and eligible to receive peace officer training as defined in California Government Code Section 1031.

This course is designed to cover training that would be weapons based or involve law enforcement tactics: range qualifications, nomenclature, positioning, trigger pull, and tactics planning. POST required training and approved. Grade: Pass/No Pass Only.

Criminal Justice Academies 038B Basic SWAT Course

Unit(s): 1.5

Class Hours: 80 Laboratory total.

Prerequisite: California P.O.S.T Certified Peace Officer.

A Peace Officer Standards and Training certified course to train peace officers to become a member of a Special Weapons and Tactics team. Grade: Pass/No Pass Only.

Criminal Justice Academies 039A First Aid/CPR Refresher

Unit(s): 0.1

Class Hours: 8 Laboratory total.

Prerequisite: Criminal Justice Academies 100A or 055B or 055D or 069B or their equivalent with a grade of Pass.

Course is designed to refresh first aid and CPR training. Grade: Pass/No Pass Only.

Criminal Justice Academies 055A Driver Training/Force Option II

Unit(s): 0.1

Class Hours: 8 Laboratory total.

Prerequisite: Criminal Justice Academies 100A 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. Grade: Pass/No Pass Only.

Criminal Justice Academies 055B Correctional Services Assistant Academy

Unit(s): 8.0 - 8.5

Class Hours: 400 - 416 Laboratory 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. Grade: Pass/No Pass Only.

Criminal Justice Academies 055D Sheriff Special Officer Academy

Unit(s): 13.5 - 14.0

Class Hours: 565 - 672 Laboratory 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. Grade: Pass/No Pass Only.

Criminal Justice Academies 055E Sheriff Special Officer Transition Course

Unit(s): 2.5 - 3.0

Class Hours: 120 - 160 Laboratory total.

Prerequisite: Criminal Justice Academies 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. Grade: Pass/No Pass Only.



Criminal Justice Academies 059 Supervisory Course

Unit(s): 3.5

Class Hours: 48 Lecture, 32 Laboratory total.

Prerequisite: Criminal Justice Academies 099A or Criminal Justice Academies 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.

P.O.S.T. approved course for law enforcement personnel newly appointed to a first-level supervisory position. Topics covered include effective communication with staff and community as well as definition and techniques of supervisory role in providing training to staff. Grade: Pass/No Pass Only.

Criminal Justice Academies 066 Basic Course Requalification

Unit(s): 5.5

Class Hours: 70 Lecture, 66 Laboratory total.

Prerequisite: Students must have successfully completed CJA 099A 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. Grade: Pass/No Pass Only.

Criminal Justice Academies 068A Investigations and Report Writing

Unit(s): 0.1 - 1.6

Class Hours: 4 - 80 Laboratory total.

Prerequisite: California P.O.S.T. Certified Peace Officer.

This course is designed to cover all aspects of investigation from a theft to homicide to include first responder, report writing, evidence, and courtroom testimony. Grade: Pass/No Pass Only.

Criminal Justice Academies 069A Corrections Training

Unit(s): 0.1 - 1.1

Class Hours: 4 - 56 Laboratory total.

Course covers all aspects of correctional officers training as required by the State of California (STC): Policies, legal update, case law, communication skills, transportation, extractions, and weapons training. Grade: Pass/No Pass Only.

Criminal Justice Academies 069B Corrections Officer CORE Course Enforcement

Unit(s): 4.0

Class Hours: 200 Laboratory total.

Prerequisite: Completion of admission requirements into the Criminal Justice Academy.

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. Grade: Pass/No Pass Only.

Criminal Justice Academies 076A Police K-9 Training

Unit(s): 4.0 - 15.0

Class Hours: 200 - 720 Laboratory total.

Prerequisite: Criminal Justice Academies 100A or its equivalent and eligible to receive peace officer training as defined in California Government Code Section 1031.

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. Grade: Pass/No Pass Only.

Criminal Justice Academies 076B Canine Agitator Training

Unit(s): 0.3 - 1.5

Class Hours: 16 - 80 Laboratory 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. Grade: Pass/No Pass Only.

Criminal Justice Academies 083A Instructor Skills

Unit(s): 0.5

Class Hours: 40 Laboratory total.

Prerequisite: Criminal Justice Academies 100A or 055B or 055D or 069B or their equivalent with a grade of Pass.

Course is designed to develop teaching skills and prepare instructors for the law enforcement classroom environment. Grade: Pass/No Pass Only.

Criminal Justice Academies 088 Campus Law Enforcement Update

Unit(s): 2.0

Class Hours: 32 Lecture, 4 Laboratory total.

Prerequisite: Criminal Justice Academies 021 or 100 with a minimum grade of C.

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, and the discipline process as it relates to students. Grade: Pass/No Pass Only.

Criminal Justice Academies 090 Academy Tactical Officer Training

Unit(s): 0.5

Class Hours: 40 Laboratory total.

Prerequisite: Criminal Justice Academies 100A 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 POST approved police academy training environment. Grade: Pass/No Pass Only.

Criminal Justice Academies 099 OCSB Basic Pre-Academy

Unit(s): 0.5 - 1.5

Class Hours: 40 - 80 Laboratory total.

Prerequisite: Accepted to attend the CJA 100A Basic Police Academy or equivalent.

Preparatory course to prepare students for the rigors of the basic police academy. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Criminal Justice Academies 099A Basic Police Academy

Unit(s): 20.0 - 21.0

Class Hours: 960 - 1024 Laboratory total.

Prerequisite: 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

Student will receive instruction in all areas of criminal justice, as required by P.O.S.T., for entry-level law enforcement officers. This course is offered in cooperation with the Orange County Sheriff's Department. Grade: Pass/No Pass Only.



**Criminal Justice Academies 099B
Level 3 Modular Police Academy**

Unit(s): 6.0 - 6.5

Class Hours: 71.5 Lecture, 96.5 - 112.5

Laboratory 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 P.O.S.T. Certified Modular Police Academy Program.

Grade: Pass/No Pass Only.

**Criminal Justice Academies 099C
Level 2 Modular Police Academy**

Unit(s): 6.5 - 7.0

Class Hours: 61.5 Lecture, 150.5 - 166.5

Laboratory total.

Prerequisite: Criminal Justice Academies 099B with a minimum grade of C or Commission on Peace Officers' Standards and Training (POST) Certified Module 3 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 P.O.S.T. Modular Police Academy Program. Grade: Pass/No Pass Only.

**Criminal Justice Academies 099D
Level 1 Modular Police Academy**

Unit(s): 14.0 - 14.5

Class Hours: 124 Lecture, 314 - 334

Laboratory, total.

Prerequisite: Criminal Justice Academies 099C with a minimal 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

The third and final module of the California P.O.S.T. Certified Modular Police Academy Program. Grade: Pass/No Pass Only.

CULINARY ARTS (CULN)

Culinary Arts 100

Introduction to Culinary Arts and Hospitality

Unit(s): 2.0

Class Hours: 32 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

Culinary Arts 110

Food Sanitation and Safety

Unit(s): 3.0

Class Hours: 48 Lecture total.

Basic principles of sanitation and safety applied to commercial food service operations to comply with state regulations for sanitation certification. Includes certification knowledge of food borne illnesses and steps of food handling; personal hygiene, procurement, preparation, storage and service; and equipment use, care, selection, and accident prevention. (Same as Nutrition and Food 110.) CSU

Culinary Arts 120

Restaurant Management and Culinary

**Formerly: Culinary Arts 062,
Basic Techniques of Cooking**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Prerequisite: Culinary Arts 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

Culinary Arts 130

Advanced Culinary and Restaurant Management

Formerly: Culinary Arts 135,

Gourmet and International Foods

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: Culinary Arts 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

Culinary Arts 140

Introduction to Baking & Pastry

Formerly: Culinary Arts 066, Baking

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: Culinary Arts 110 or Nutrition and Food 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

Culinary Arts 150

Principles of Pantry

Formerly: Culinary Arts 145, Foods

Presentation Pantry/Garde Manger

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Prerequisite: Nutrition and Food 110 or Culinary Arts 110 with a minimum grade of C.

Foods presentation and cold food preparation, emphasizing knife usage for fruit and vegetable. CSU

Culinary Arts 160

Principles of Beverage Service

Formerly: Culinary Arts 070, Beverage Service

Unit(s): 2.0

Class Hours: 32 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



Culinary Arts 200
Business Practices for Culinary Arts Professionals

Unit(s): 2.0
 Class Hours: 32 Lecture total.
 Prerequisite: Business 080 with a minimum grade of C.

Business practices for entrepreneurs or individuals interested in employment in the culinary arts industry. Includes menu planning, marketing strategies, accounting systems, and visits to industry sites. CSU

Culinary Arts 299
Cooperative Work Experience Education

Unit(s): 1.0 - 4.0
 Class Hours: 60 - 300 Laboratory total.
 Prerequisite: 12 units completed in Culinary Arts or Nutrition & Food degree/certificate courses.

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. Students must work 75 hours of paid work or 60 hours of un-paid work to earn one unit of course credit. Credit may be accrued at the rate of one to four units per semester for a total of sixteen units. Grade: Pass/No Pass Only. Open Entry/Open Exit. CSU

DANCE (DNCE)

Dance 009A
Dance Laboratory I

Unit(s): 0.5
 Class Hours: 24 Laboratory 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. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Dance 009B
Dance Laboratory II

Unit(s): 0.5
 Class Hours: 24 Laboratory total.
 Prerequisite: Dance 009-A 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., Grade: Pass/No Pass Only. Open Entry/Open Exit.

Dance 009C
Dance Laboratory III

Unit(s): 0.5
 Class Hours: 24 Laboratory total.
 Prerequisite: Dance 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. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Dance 009D
Dance Laboratory IV

Unit(s): 0.5
 Class Hours: 24 Laboratory total.
 Prerequisite: Dance 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. Open Entry/Open Exit.

Dance 100
Dance History and Appreciation

Unit(s): 3.0
 Class Hours: 48 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 21th Century. Emphasizes the contemporary dance heritage of the United States. CSU/UC

Dance 100H
Honors Dance History and Appreciation

Unit(s): 3.0
 Class Hours: 48 Lecture total.
 Prerequisite: A high school or college GPA of 3.0 or above.

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

Dance 102
Introduction to Dance Forms

Unit(s): 3.0
 Class Hours: 32 Lecture, 48 Laboratory 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

Dance 105
World Dance and Cultures

Unit(s): 3.0
 Class Hours: 48 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

Dance 106A
Introduction to Modern Dance

Unit(s): 1.0
 Class Hours: 8 Lecture, 24 Laboratory 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 Dance 106A, 106B, 206A, 206B, 209, and 210 may be taken a maximum of four enrollments. CSU/UC

**Dance 106B****Introduction to Modern Dance**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory 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 Dance 106A, 106B, 206A, 206B, 209, and 210 may be taken a maximum of four enrollments. CSU/UC

Dance 107**Dance Concert Performance**

Unit(s): 1.0

Class Hours: 8 Lecture, 40 Laboratory total.

Formal Dance Concert performance experience for dance students. Includes both rehearsal process and a minimum of three on-stage public performances. 48 hours earns one unit. Repertoire and casting vary each semester. Grade: Pass/No Pass Only. CSU/UC

Dance 108A**Introduction to Ballet**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory 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 Dance 108A, 108B, 201A, 201B, 213, and 214 may be taken a maximum of four enrollments. CSU/UC

Dance 108B**Introduction to Ballet**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory 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. Dance 108B is a refinement of ballet technique skills learned in Dance 108A. A combination of Dance 108A, 108B, 201A, 201B, 213, and 214 may be taken a maximum of four enrollments. CSU/UC

Dance 109A**Pilates Mat I**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory 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. Grade: Pass/No Pass Only. A combination of Dance 109A, 109B, and 109C may be taken a maximum of four enrollments. CSU/UC

Dance 109B**Pilates Mat II**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory 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. Grade: Pass/No Pass Only. A combination of Dance 109A, 109B, and 109C may be taken a maximum of four enrollments. CSU/UC

Dance 109C**Pilates Mat III**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory 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. Grade: Pass/No Pass Only. A combination of Dance 109A, 109B, and 109C may be taken a maximum of four enrollments. CSU/UC

Dance 110**Beginning Mexican Folk Dance**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory 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 Dance 110, 111, and 117 may be taken a maximum of four enrollments. CSU/UC

Dance 111**Intermediate Mexican Folk Dance**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory total.

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. Dance 110 recommended. A combination of Dance 110, 111, and 117 may be taken a maximum of four enrollments. CSU/UC

Dance 112**Ethnic Dance**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory 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

Dance 113A**Flamenco Dance I**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory 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 Dance 113A and 113B may be taken a maximum of four enrollments. CSU/UC

Dance 113B**Flamenco Dance II**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory total.

Prerequisite: Dance 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. Repertoire varies each semester. A combination of Dance 113A and 113B may be taken a maximum of four enrollments. CSU/UC

Dance 117**Introduction to Middle Eastern Dance**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory total.

Introduction to Middle Eastern Dance, including belly dance and folk dance forms. Emphasis is on movement technique, vocabulary, and creative expression. Also explores the fusion of Western and Middle Eastern dance forms. No experience necessary. Content varies each semester. A combination of Dance 110, 111, and 117 may be taken a maximum of four enrollments. CSU/UC

Dance 118**Introduction to Caribbean and Latin Dance Styles**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory 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. CSU/UC

**Dance 119A****Introduction to Jazz Dance**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory total.

Introduction to jazz dance technique emphasizing elementary movement technique, vocabulary, and creative expression. Includes an introduction to composition and cultural context of jazz. For students with little or no dance experience. A combination of Dance 119A, 119B, 219A, 219B, 220, and 221 may be taken a maximum of four enrollments. CSU/UC

Dance 119B**Introduction to Jazz Dance**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory total.

A refinement of basic jazz dance, emphasizing movement technique, vocabulary, and creative expression. Includes composition, the cultural context of jazz and contemporary jazz, dance forms. Movement repertoire differs from 119A. A combination of Dance 119A, 119B, 219A, 219B, 220, and 221 may be taken a maximum of four enrollments. CSU/UC

Dance 120A**Introduction to Hip-Hop Dance**

Unit(s): 1.0

Class Hours: 16 Lecture, 16 Laboratory 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. CSU/UC

Dance 120B**Intermediate Hip-Hop Dance**

Unit(s): 1.0

Class Hours: 16 Lecture, 16 Laboratory 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. CSU/UC

Dance 122**Commercial Contemporary Dance**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory 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. CSU/UC

Dance 123**Introduction to Salsa Dance**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory 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. CSU/UC

Dance 124**Intermediate Salsa Dance**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory 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. CSU/UC

Dance 130**Dance Improvisation**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory 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. CSU/UC

Dance 132**Dance Stretch**

Unit(s): 0.5

Class Hours: 4 Lecture, 12 Laboratory total.

Instruction in sustained and specific stretch designed to improve overall body flexibility, increase range of motion, and improve body alignment. Supplemental course for all levels of dance technique. Grade: Pass/No Pass Only. CSU/UC

Dance 140**Dance Repertory Workshop**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory 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. Grade: Pass/No Pass Only. CSU/UC

Dance 180**Professional Studio Practices**

Unit(s): 1.0

Class Hours: 16 Lecture, 16 Laboratory total.

Learn the procedures, management, and expectations of dancers working in private studios. Applicable for both the dance educator and the professional dancer. CSU

Dance 201A**Ballet I**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory 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. CSU/UC

Dance 201B**Ballet II**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Recommended Preparation: Dance 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. CSU/UC

Dance 202A**Choreography**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

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 Dance 130, 202A, and 202B may be taken a maximum of four enrollments. CSU/UC

Dance 202B**Choreography for Dance Majors**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory 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 Dance 130, 202A, and 202B may be taken a maximum of four enrollments. CSU/UC

**Dance 204A****Dance Production**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Prerequisite: Audition.

Concert Dance production experience culminating in public performances in Phillips Hall Theater as part of the Spring Student/Faculty Dance Concert. Includes production basics, with an emphasis on working with faculty/student choreographers to create original dances. Focus on performance techniques. CSU/UC

Dance 204B**Dance Production**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Prerequisite: Dance 202A or 202B with a minimum grade of C and audition.

Concert Dance production experience for students creating and producing original choreography for and/or performing in the SAC dance concert. Includes production basics with an emphasis on creating, rehearsing, and performing dances. Focus on choreography. CSU/UC

Dance 205**Performance Ensemble**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Pre-professional ensemble to provide performance experience for advanced students. 64 hours earns 2 units. Repertoire and casting vary each semester. Requires audition prior to enrollment. Grade: Pass/No Pass Only. CSU/UC

Dance 206A**Modern Dance I**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory 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 modern dance. Students learn modern dance exercises and short works of dance. Prepares the student for Dance 206B. A combination of Dance 106A, 106B, 206A, 206B, 209, and 210 may be taken a maximum of four enrollments. CSU/UC

Dance 206B**Modern Dance II**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Prerequisite: Dance 206A with a minimum grade of C or Audition.

Continued study in modern dance emphasizing movement technique, dance vocabulary, and creative individual expression. Includes an introduction to choreographic principles and cultural context of modern dance. Videos, concerts, and master classes enrich the course. Dance 206B is a continuation and refinement of work begun during Dance 206A. A combination of Dance 106A, 106B, 206A, 206B, 209, and 210 may be taken a maximum of four enrollments. CSU/UC

Dance 209**Modern Dance III**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Provides the continuing modern dance student opportunity to concentrate on more advanced steps and development of technical skills. Emphasizes combinations, choreography, and performance style. Dance 206 recommended. A combination of Dance 106A, 106B, 206A, 206B, 209, and 210 may be taken a maximum of four enrollments. CSU/UC

Dance 210**Modern Dance IV**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Continuing study of technique including more complicated combinations and advanced material. Emphasizes movement, expression, composition techniques, and comparison of modern dance styles. Dance 209 recommended. A combination of Dance 106A, 106B, 206A, 206B, 209, and 210 may be taken a maximum of four enrollments. CSU/UC

Dance 213**Ballet III**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Recommended Preparation: Dance 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. CSU/UC

Dance 214**Ballet IV**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Recommended Preparation: Dance 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. CSU/UC

Dance 219A**Jazz Dance I**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory 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 Dance 119A, 119B, 219A, 219B, 220, and 221 may be taken a maximum of four enrollments. CSU/UC

Dance 219B**Jazz Dance II**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Recommended Preparation: Dance 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. CSU/UC

Dance 220**Jazz Dance III**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Recommended Preparation: Dance 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. CSU/UC

**Dance 221****Jazz Dance IV**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.
Recommended Preparation: Dance 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. CSU/UC

Dance 232**Partnering**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory total.
Prerequisite: Completion of a prior dance class or concurrent enrollment and audition.

The study of partnering in modern, jazz, and classical choreography. Includes duets, groups, and choreography involving any body contact or shifting of weight from one individual to another. Experience differs each semester. CSU/UC

Dance 240A**Repertory I**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.
Prerequisite: Audition.

Students develop and improve rehearsal and performance skills through learning a repertoire of dances. Includes preparation for public concerts and performances at different venues. Dances vary each semester. May be repeated. CSU/UC

Dance 240B**Repertory II**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.
Prerequisite: Audition.

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. May be repeated. CSU/UC

Dance 250A**Hip Hop Dance I**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory 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 Dance 250A, 250B, and 251 may be taken a maximum of four enrollments. CSU/UC

Dance 250B**Hip Hop Dance II**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

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 Dance 250A, 250B, and 251 may be taken a maximum of four enrollments. CSU/UC

Dance 251**Hip Hop Dance III**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Instruction for the continuing hip hop dance student in intermediate level hip hop dance steps and further development of technical skills. Emphasis will be placed on combinations, choreography, performance style, and cultural context of hip hop. Dance 250B recommended. A combination of Dance 250A, 250B, and 251 may be taken a maximum of four enrollments. CSU/UC

Dance 260**Somatic Practices in Dance**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory 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 Dance 260, 261, 262, and 263 may be taken a maximum of four enrollments. CSU/UC

Dance 261**Somatic Practices in Modern Dance**

Unit(s): 1.0

Class Hours: 16 Lecture, 16 Laboratory total.

Prerequisite: Dance 260 with a minimum grade of C

Application of somatic practices learned in Dance 260 to intermediate/advanced level modern dance techniques. Grade: Pass/No Pass Only. CSU/UC

Dance 262**Somatic Practices in Ballet**

Unit(s): 1.0

Class Hours: 16 Lecture, 16 Laboratory total.

Prerequisite: Dance 260 with a minimum grade of C.

Application of somatic practices learned in Dance 260 to intermediate/advanced level ballet techniques. Grade: Pass/No Pass Only. A combination of Dance 260, 261, 262, and 263 may be taken a maximum of four enrollments. CSU/UC

Dance 263**Somatic Practices in Jazz Dance**

Unit(s): 1.0

Class Hours: 16 Lecture, 16 Laboratory total.

Prerequisite: Dance 260 with a minimum grade of C

Application of somatic practices learned in Dance 260 to intermediate/advanced level jazz dance techniques. Grade: Pass/No Pass Only. CSU/UC

Dance 270**Dance Practicum**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory total.

Prerequisite: Dance 180 with a minimum grade of B.

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

Dance 296**Special Studies in Modern Dance**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory total.

An intermediate/advanced level course offering individualized and accelerated instruction in modern dance techniques. Grade: Pass/No Pass Only. A combination of Dance 296, 297, and 298 may be taken a maximum of four enrollments. CSU/UC

Dance 297**Special Studies in Jazz Dance**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory total.

An intermediate/advanced level course offering individualized and accelerated instruction in jazz dance techniques. Grade: Pass/No Pass Only. A combination of Dance 296, 297, and 298 may be taken a maximum of four enrollments. CSU/UC

**Dance 298****Special Studies in Dance**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory total.

Prerequisite: Must complete two dance courses in ballet, jazz or modern dance.

An intermediate/advanced level course offering individualized and accelerated instruction in dance techniques. Grade: Pass/No Pass Only. A combination of Dance 296, 297, and 298 may be taken a maximum of four enrollments. CSU/UC

DIESEL (DSL)**Diesel 024****Electrical Systems**

Unit(s): 5.0

Class Hours: 64 Lecture, 64 Laboratory total.

Theory, operation, diagnosis, and maintenance of the following systems and components: lighting, instrument, and accessory circuits. Students furnish hand tools and safety equipment. Suggested preparation: Diesel 022.

Diesel 101**Truck Preventative Maintenance**

Unit(s): 5.0

Class Hours: 64 Lecture, 64 Laboratory 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

Diesel 108**Oxyacetylene-Arc Welding**

Unit(s): 3.0

Class Hours: 16 Lecture, 96 Laboratory total.

Technical knowledge and basic skills needed for occupational oxyacetylene and arc welding processes and applications. Students must furnish safety equipment. (Same as Automotive Technology 108 and Welding 108.) CSU

Diesel 109**Truck Chassis: Brake and Suspension Service**

Unit(s): 4.0

Class Hours: 32 Lecture, 96 Laboratory total.

This course covers the air and hydraulic brake systems used on modern medium and heavy duty trucks. Steering and suspension systems on these vehicles are also covered. Emphasis is placed upon utilizing the correct service and diagnostic procedures as required by the trucking industry. CSU

Diesel 110**Truck Chassis: Drive Train Service**

Unit(s): 4.0

Class Hours: 32 Lecture, 96 Laboratory 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

Diesel 113**Allison Transmission Service**

Formerly: Diesel 013, Allison Transmission Service

Unit(s): 5.0

Class Hours: 64 Lecture, 64 Laboratory 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

Diesel 115**Introduction to Heavy Duty Mobile Hydraulics**

Formerly: Diesel 015, Introduction to Heavy Duty Mobile Hydraulics

Unit(s): 5.0

Class Hours: 64 Lecture, 64 Laboratory 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

Diesel 121**Mid-Range Diesel Engine Service**

Formerly: Diesel 021, Mid-Range Diesel Engine Service

Unit(s): 4.5

Class Hours: 48 Lecture, 80 Laboratory 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

Diesel 122**Electronics Fundamentals**

Formerly: Diesel 022, Electronics Fundamentals

Unit(s): 5.0

Class Hours: 64 Lecture, 64 Laboratory 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 Automotive Technology 122.) CSU

Diesel 125**Heavy Duty Diesel Engine: Top End Service**

Unit(s): 4.0

Class Hours: 32 Lecture, 96 Laboratory 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

Diesel 126**Heavy Duty Diesel Engine: Bottom End Service**

Unit(s): 4.0

Class Hours: 32 Lecture, 96 Laboratory 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

Diesel 132**Diesel Fuel Injection Systems Service**

Formerly: Diesel 032, Diesel Fuel Injection Systems Service

Unit(s): 5.0

Class Hours: 64 Lecture, 64 Laboratory 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

Diesel 140**Diesel Electrical Systems**

Formerly: Diesel 040, Diesel Electrical Systems

Unit(s): 5.0

Class Hours: 64 Lecture, 64 Laboratory 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

Diesel 160**Foundations of Mobile Air Conditioning And Refrigeration**

Unit(s): 5.0

Class Hours: 64 Lecture, 64 Laboratory 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 Automotive Technology 160.) CSU

**Diesel 162****Air Conditioning and Heating**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.

Operation, testing, and servicing of truck cab air conditioning and heating systems as well as auxiliary power units. Safety, refrigerant recovery, special equipment, controls will be covered. Applied air conditioning theory. EPA 609 certification is a segment of this course. Helps prepare student for T7 ASE certification exam. CSU

Diesel 165**Transport Refrigeration****Formerly: Diesel 050, Transport Refrigeration**

Unit(s): 5.0

Class Hours: 64 Lecture, 64 Laboratory 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

Diesel 202**Introduction to Coach Operations****Formerly: Diesel 071, Introduction to Coach Operations**

Unit(s): 1.0

Class Hours: 18 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 through CERT10 courses. Familiarizes students with the proper and safe use of hand tools and equipment. Includes an overview of the functions and procedures for preventative maintenance on current transit buses. Grade: Pass/No Pass Only. CSU

Diesel 203**Transit Vehicle Electrical Systems****Formerly: Diesel 072, Transit Vehicle Electrical Systems**

Unit(s): 2.0

Class Hours: 36 Lecture total.

Prerequisite: Diesel 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. Grade: Pass/No Pass Only. CSU

Diesel 204**Transit Vehicle Air Systems****Formerly: Diesel 073, Transit Vehicle Air Systems**

Unit(s): 0.5

Class Hours: 12 Lecture total.

Prerequisite: Diesel 202 with 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. Grade: Pass/No Pass Only. CSU

Diesel 205**Transit Vehicle Air Brake Systems****Formerly: Diesel 080, Transit Vehicle Air Brake Systems**

Unit(s): 1.0

Class Hours: 18 Lecture total.

Prerequisite: Diesel 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. Grade: Pass/No Pass Only. CSU

Diesel 206**Transit Vehicle Automatic Transmissions****Formerly: Diesel 075, Transit Vehicle Automatic Transmissions**

Unit(s): 1.5

Class Hours: 24 Lecture total.

Prerequisite: Diesel 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. Grade: Pass/No Pass Only.

Diesel 207**Transit Vehicle Engines****Formerly: Diesel 068, Transit Vehicle Engines**

Unit(s): 2.5

Class Hours: 42 Lecture total.

Prerequisite: Diesel 202 with a minimum grade of C.

Designed to acquaint the student with the basic theory of operation, diagnostic and troubleshooting techniques, repair and service of engines. Grade: Pass/No Pass Only. CSU

Diesel 208**Transit Vehicle Heating, Ventilation, Air Conditioning****Formerly: Diesel 077, Transit Vehicle Heating, Ventilation, Air Conditioning**

Unit(s): 1.5

Class Hours: 24 Lecture total.

Prerequisite: Diesel 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. Grade: Pass/No Pass Only. CSU

Diesel 209**Transit Vehicle Drive Train Suspension****Formerly: Diesel 078, Transit Vehicle Drive Train Suspension**

Unit(s): 1.0

Class Hours: 21 Lecture total.

Prerequisite: Diesel 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. Grade: Pass/No Pass Only. CSU

Diesel 210**Transit Vehicle Wheelchair Lifts****Formerly: Diesel 079, Transit Vehicle Wheelchair Lifts**

Unit(s): 0.5

Class Hours: 12 Lecture total.

Prerequisite: Diesel 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. Grade: Pass/No Pass Only. CSU

**Diesel 287****Alternative Fuels**

Unit(s): 3.0

Class Hours: 48 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, Biodiesel, Ethanol, and Hydrogen are also covered. This course prepares automotive as well as diesel students for industry. (Same as Automotive Technology 287.) CSU

Diesel 288**Diesel Engines: Light-Medium Duty Systems**

Unit(s): 3.0

Class Hours: 48 Lecture total.

This course will introduce the practical 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. (Same as Automotive Technology 288.) CSU

ECONOMICS (ECON)**Economics 120 (C-ID ECON 202)****Principles/Macro**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Mathematics 060 or Mathematics 083 or Mathematics 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

Economics 121 (C-ID ECON 201)**Principles/Micro**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Mathematics 060 or Mathematics 083 or Mathematics 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)**Education 100 (C-ID EDUC 200)****Introduction to Education**

Unit(s): 3.0

Class Hours: 48 Lecture total.

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

Education 113**Tutoring Reading in Elementary Schools**

Unit(s): 1.0

Class Hours: 16 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

Education 204**Personal Proficiency in Educational Technologies for Secondary Teachers**

Unit(s): 3.0

Class Hours: 48 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

Education 205**Personal Proficiency in Educational Technology for Elementary Teachers**

Unit(s): 3.0

Class Hours: 48 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

Education 209**Roles and Responsibilities of the Special Education Paraprofessional**

Unit(s): 3.0

Class Hours: 48 Lecture total.

This course is designed to train persons who work as classroom paraprofessional/teaching assistants in the public schools. The course provides an overview of paraprofessional roles and responsibilities including legal, instruction, evaluation and behavioral issues. Supports current legislation for paraprofessionals. CSU

Education 210**The Teaching Experience: Secondary Education**

Unit(s): 3.0

Class Hours: 48 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 and internship in a local secondary classroom. CSU/UC

Education 211**Classroom Practices for Diverse Learners**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prepares individuals to assist teachers in various settings to support diverse learners (individuals who have disabilities, are second language learners, are gifted, etc.). Topics will include lesson planning, adapting academics: reading, mathematics, science, art, job coaching, behavioral support, etc. CSU

EMERGENCY MEDICAL TECHNICIAN (EMT)**Emergency Medical Technician 104****Emergency Medical Technician**

Unit(s): 10.0

Class Hours: 144 Lecture, 48 Laboratory total.

Corequisite: American Heart Association Basic Life Support (BLS) Healthcare Provider Card and concurrent enrollment in Emergency Medical Technician 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 derived from the National Scope of Practice Model for entry-level EMTs. CSU



Emergency Medical Technician 105 Clinical EMT Skills Laboratory

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Corequisite: Concurrent enrollment in Emergency Medical Technician 104. In order to pass Emergency Medical Technician 105, the student must pass Emergency Medical Technician 104. A failing grade in Emergency Medical Technician 104 will be given if Emergency Medical Technician 105 is not passed.

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. Grade: Pass/No Pass Only. CSU

Emergency Medical Technician 111 Recertification for EMT

Unit(s): 2.0

Class Hours: 32 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

Emergency Medical Technician 198 Topics

Unit(s): 0.5 - 3.0

Class Hours: 8 - 54 Lecture total.

Courses on a variety of contemporary topics will be offered to meet the interests and needs of students in the Emergency Medical Technician area. CSU

ENGINEERING (ENGR)

Engineering 012 AEC Print Reading

Unit(s): 3.0

Class Hours: 48 Lecture total.

Reading and interpreting blueprints for Architecture, Civil Engineering, Construction (AEC). Information in this course provides preparation for more advanced AEC coursework. Recommended for students with no prior course(s) in blueprint reading.

Engineering 027 Electronic Drafting

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Fundamentals of electronic drafting. Includes symbols, schematics, cable drawings, logic diagrams, printed circuit board layout, and electromechanical design.

Engineering 051 Basic Technical Drawing

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.

Principles of mechanical drawing including projections, views, dimensions, and conventions, utilizing sketches and computer drafting program. Designed for students with no prior mechanical drawing experience.

Engineering 100A (C-ID ENGR 110) Introduction to Engineering

Unit(s): 2.0

Class Hours: 32 Lecture total.

Introduction to major fields of engineering (including mechanical, electrical, industrial, biomedical, aerospace, and others), 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

Engineering 100B Introduction to Architecture/Civil Engineering /Construction (AEC)

Unit(s): 2.0

Class Hours: 32 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

Engineering 103 Solidworks Basic Solid Modeling

Unit(s): 3.0

Class Hours: 48 Lecture total.

Introductory course in parametric solid modeling. 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

Engineering 104 Solidworks Intermediate Solid Modeling

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Engineering 103 or Manufacturing 103 with a minimum grade of C.

Intermediate course for solid modeling, 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

Engineering 105 Solidworks Advanced Solid Modeling

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Engineering 104 or Manufacturing Technology 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

Engineering 110 Advanced CAD Applications

Unit(s): 0.5 - 4.0

Class Hours: 24 - 192 Laboratory 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. Grade: Pass/No Pass Only. Open Entry/Open Exit. CSU

Engineering 111 Basic Mechanical Blueprint Reading

Unit(s): 2.0

Class Hours: 32 Lecture total.

Reading and interpreting blueprints for manufacturing technologies. (Same as Manufacturing Technology 111.) CSU

Engineering 112 Society and the Built Environment

Unit(s): 3.0

Class Hours: 48 Lecture total.

An introductory course that explores the far-reaching impacts of society on the built environment. A multidisciplinary examination of western and non-western society's ethics, economics, culture, ecology, processes, technology and tools on trends and developments of the built environment. CSU

**Engineering 114****Geometric Dimensioning and Tolerancing**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Engineering 104 or Manufacturing 111 or Engineering 122 or Engineering 125 with a minimum grade of C.

Drawing interpretation utilizing geometric dimensioning and tolerancing (ANSI Y14.5) as applied in engineering, manufacturing, and inspection. (Same as Manufacturing Technology 114.) CSU

Engineering 115**Cooperative Work Experience Education-Occupational**

Unit(s): 1.0 - 4.0

Class Hours: 60 - 300 Lecture 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. Grade: Pass/No Pass Only. CSU

Engineering 118 (C-ID ENGR 180)**Surveying****Formerly: Engineering 118, Plane Surveying**

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory total.

Prerequisite: Mathematics 160 or Mathematics 170 with a minimum grade of C or prerequisite may be satisfied by High School or College Trigonometry (C-ID MATH 851) or Precalculus (C-ID MATH 155) or High School transcribed Trigonometry or Precalculus with a minimum grade of C.

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. Completion of Mathematics 160 recommended. CSU

Engineering 119**Advanced Plane Surveying**

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory total.

Prerequisite: Engineering 118 with a minimum grade of C; instructor may waive if student can show proof of industry experience in surveying equal or greater than Engineering 118.

Emphasis on coordinate geometry calculations. Route surveying with horizontal and vertical curves. Topographic surveying and mapping. Construction surveying. Introduction to geospatial technologies, boundary surveying and surveys of public lands. Field surveying projects. Assists student in passing the state land surveyor-in-training exam. Previous successful completion of Mathematics 160 recommended. CSU

Engineering 122**Engineering Drawing**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.

Principles of engineering drawing: projections, views, sections, dimensions, tolerancing, assemblies, manufacturing processes, engineering drafting practices. Utilizing sketches and computer drafting program. CSU/UC

Engineering 124**Advanced Drawing**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.

Recommended Preparation: Engineering 122 or Engineering 125 with a minimum grade of C.

Advanced topics in engineering drawing and design - working drawings, fasteners, cams, gears, auxiliary views, advanced sectioning, dimensioning, tolerancing. Utilizing sketches and computer drafting program. CSU/UC

Engineering 125**Engineering Graphics**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.

Prerequisite: Mathematics 160 with a minimum grade of C. May be satisfied by equivalent High School trigonometry class with minimum grade of C.

Includes principles of engineering drawings in visually communicating engineering designs in sketches, and an introduction to computer-aided design (CAD). Includes orthographic projections, dimensioning, tolerancing, section, design and graphical mathematics, utilizing sketches, introduction to 2D and 3D computer drafting program and the engineering design process. Assignments develop sketching and 2-D and 3-D CAD skill. The use of CAD software is an integral part of the course. Suggested preparation: Engineering 051 and 183 (may be taken concurrently). CSU/UC

Engineering 130A**CATIA Beginning Solid Modeling**

Unit(s): 3.0

Class Hours: 48 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

Engineering 130B**CATIA Intermediate Solid Modeling**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Recommended Preparation: Engineering 130A or Manufacturing 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

Engineering 132**Introduction to Robotics**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Introductory course in robotics. Topics include history of robotics, impact 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

Engineering 133**Introductory Electromechanical Engineering Technology**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.

Recommended Preparation: Engineering 103 and Mathematics 084 with a minimum grade of C.

Introductory course in electro-mechanical engineering technology with an emphasis on hands-on fabrication and testing. Topics include: basic design using CAD software and mechanics principles; introductory fabrication and testing of mechanical systems (mechanical elements, materials, fabrication processes, frames, fasteners, fluid systems, 3D printing, laser cutting, and other processes), and electrical systems (basic circuit analysis, construction, and measurement). CSU

**Engineering 134****Intermediate Electromechanical Engineering Technology**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.
Prerequisite: Engineering 133 with a minimum grade of C.

Intermediate course in electro-mechanical engineering technology with an emphasis on hands-on fabrication and testing. Topics include: design using CAD software and mechanics principles; intermediate level fabrication and testing of mechanical systems (machine elements, fabrication processes, rapid prototyping, assembly, measurement and inspection, and other processes), and electrical systems (circuit analysis, op amps, AC circuits, LEDs, soldering, circuit construction, use of DMM and oscilloscope). CSU

Engineering 135**Advanced Electromechanical Engineering Technology**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.
Prerequisite: Engineering 134 with a minimum grade of C.

Recommended Preparation: Engineering 103 and Engineering 158 with a minimum grade of C.

Advanced course in electro-mechanical engineering technology with an emphasis on hands-on fabrication and testing. Topics include: design using CAD software and mechanics principles; advanced level fabrication and testing of mechanical systems (drive systems, gears, linear motion elements, rapid prototyping systems, motor control, actuation, and other processes), and electrical systems (solid state devices, op amps, AC circuits, transducers, micro-controllers, circuit measurement devices). CSU

Engineering 136**LabVIEW Data Acquisition****Formerly: Engineering 136, Fabrication and Automation Techniques for Engineering Technology**

Unit(s): 2.0

Class Hours: 32 Lecture total.

Students will learn to use LabVIEW software, which is a commonly-used data-acquisition software in the manufacturing industry. The course prepares students for LabVIEW certification by National Instruments. CSU

Engineering 137**Engineering Design and Development**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.
Prerequisite: Engineering 133, Engineering 134, Engineering 135, and Engineering 136 with a minimum grade of C.

In this capstone course, teams of students will work together to design, construct, and test solutions to engineering problems. Topics include research, prototype development, simulation, rapid-prototyping, construction, testing and evaluation, data acquisition and analysis, technical reports and project presentation. CSU

Engineering 142**Architecture/Civil Engineering/Construction (AEC) Drawing****Formerly: Engineering 142, Architecture/Civil Engineering/Construction (AEC) Drafting Standards**

Unit(s): 4.0

Class Hours: 48 Lecture, 64 Laboratory total.
Recommended Preparation: Engineering 012 and Engineering 183

An introduction to conventional and computer aided drafting techniques in the relation of drawings for construction. Interpretation of details in construction drawings/blueprints and reference materials. Laboratory: Drafting plans for a residential building using the techniques introduced in the course. Includes ecological terms and concepts, BIM basics, and abbreviations. CSU

Engineering 143**Fundamentals of Construction Engineering/Construction (AEC) Drafting Standards**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Overview of residential, commercial, institutional, industrial, and heavy civil construction and associated codes, standards, and ethical boundaries. Areas of focus to include type of foundations, materials, contract documents, working drawings and vocabulary. Includes an introduction to LEED/Green Construction. CSU

Engineering 154**Architecture/Civil Engineering/Construction (AEC) Parametric and BIM Applications**

Unit(s): 4.0

Class Hours: 48 Lecture, 64 Laboratory total.

This course covers AEC 3D Parametric applications for architectural, civil engineering, and construction drawings/documents. Includes BIM concepts, sustainable design, organization of projects, visualization and printing. Suggested preparation: Engineering 142 and 186. CSU

Engineering 156A**Beginning Robotic Welding**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.
Prerequisite: Welding 108 with a minimum grade of C.

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

Engineering 156B**Intermediate Robotic Welding**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.
Prerequisite: Welding 156A with a minimum grade of C.

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 Welding 156B.) CSU

Engineering 156C**Advanced Robotic Welding**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.
Prerequisite: Welding 156B with a minimum grade of C.

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



Engineering 157A
Basic Robotic Programming

Unit(s): 3.0
Class Hours: 16 Lecture, 96 Laboratory total.
Prerequisite: Welding 108 with a minimum grade of C.
Corequisite: Concurrent enrollment in Welding 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

Engineering 157B
Intermediate Robotic Programming

Unit(s): 3.0
Class Hours: 16 Lecture, 96 Laboratory total.
Prerequisite: Welding 156 or Engineering 156 and Welding 157A or Engineering 157A with a minimum grade of C.
Corequisite: Concurrent enrollment in Welding 156B or Engineering 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

Engineering 157C
Advanced Robotic Programming Welding

Unit(s): 3.0
Class Hours: 16 Lecture, 96 Laboratory total.
Prerequisite: Welding 156B or Engineering 156B and Welding 157B or Engineering 157B with a minimum grade of C.

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

Engineering 158
Basic Machining Concepts and Operations

Unit(s): 3.0
Class Hours: 16 Lecture, 112 Laboratory 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

Engineering 165
Introduction to Energy

Unit(s): 3.0
Class Hours: 48 Lecture total.

Students will gain a broad understanding of energy concepts, efficiencies, conservation, distribution, careers and cost-benefit analysis of energy resource use. The study of both renewable and non-renewable energy will be included. CSU/UC

Engineering 175
Introduction to Energy Analysis

Unit(s): 3.0
Class Hours: 48 Lecture total.

This course is focused on energy analysis with respect to energy conservation, energy auditing, and CA Title 24 requirements. Calculations will be performed manually and with the assistance of software applications. Career tracks in energy analysis will be explored. Energy concepts, heat loss calculations, basic solar concepts, site selection, design improvements, appliances, and utility systems will be covered within this course. CSU

Engineering 177
Green HVAC

Unit(s): 3.0
Class Hours: 48 Lecture total.

In this course students learn the basic principles of heating, ventilation, and air conditioning (HVAC) systems in commercial buildings, with an emphasis on energy efficiency and renewable energy. Topics include heat loss calculations, fuels and combustion, waste heat recovery, and maintenance considerations for these systems. CSU

Engineering 183
CAD I - Computer Aided Drafting

Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total.

A first course in computer drafting focused on AutoDesk software, with AutoCAD as a base. Topics include display and file management, units, entities, object selection, advanced editing, layers, dimensions, text, graphic exchange, and phone apps. CSU/UC

Engineering 184
CAD II - Computer Aided Drafting

Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total.
Recommended Preparation: Engineering 183 or industry CAD experience.

Intermediate course focused on Autodesk software, especially AutoCAD. Topics include including a variety of intermediate apps, blocks, hatches, attributes, inquiry, and 3-D introduction, plus smart phone use. CSU

Engineering 185
AutoCAD & Customization

Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total.
Recommended Preparation: Engineering 184 with a minimum grade of C.

Advanced course in the use of CAD software customization. Topics include DXF format, scripts, macros, customizing and creating image tile menus. CSU

Engineering 186
AutoCAD 3-Dimensional Drawing

Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total.
Use of AutoCAD's 3-dimensional software. Includes 3-D models, extruding to 3-D, coordinate space, filter, and dynamic viewing. Recommended preparation: Engineering 184. CSU

Engineering 187
Advanced 3-D Civil Cad

Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total.
Recommended Preparation: Engineering 186

Advanced use of 3-Dimensional software for Civil Engineering applications. Includes: merging of models, advanced modeling, calculations, 3-dimensional rendering and presentation. CSU

Engineering 191
Civil CAD Concepts

Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total.

Fundamental principles, operation techniques and practices of two dimensional design using MicroStation computer-aided drafting and design software emphasizing Civil Engineering applications to create, modify, store, and plot graphic data. CSU

Engineering 193
Microstation 3-D

Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total.
Recommended Preparation: Engineering 191 with a grade of C or equivalent industry experience.

Theory, concepts, techniques and practices of three dimensional design using MicroStation computer-aided drafting and design software. Topics include surfaces, solids, shade, and color. Suggested preparation: Engineering 191. CSU



**Engineering 195
Renewable Energy**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Students will be able to cite sustainable methods for improving the operational performance of offices, schools, hospitals, and other residential and commercial buildings. In this course, students learn the principles, methods, and equipment associated with renewable energy systems. Topics include solar, wind, biomass and biofuels, fuel cells, hydropower, oceanic energy, geothermal, and energy storage. Nonrenewable energy sources, climate change, and the economics and politics of energy are also discussed. CSU/UC

**Engineering 201
Residential and Light Commercial
Construction Practices and Estimating**

Unit(s): 4.0

Class Hours: 48 Lecture, 64 Laboratory total.

Recommended Preparation: Engineering 100B, Engineering 112, and Engineering 142.

Course provides practical knowledge, ecological terms and concepts, for planning, design, and construction of residential and light commercial buildings including materials, equipment, construction/assembly methods, quantity take-off, and building codes/standards. CSU

**Engineering 202
Cost Accounting for Construction Engineering**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Study of the theoretical and practical concepts of cost accounting. Topics include: variable and fixed costs, break-even point, interrelationships of cost, volume and profits; job-order accounting, general and flexible budgeting, standard costs; product costing methods; cost allocation; inventory planning; control and valuation; and joint products. (Same as Accounting 202.) CSU

**Engineering 203
Sustainable Construction and Facilities
Management**

Unit(s): 3.0

Class Hours: 48 Lecture total.

This course provides students the means to apply core sustainable principles to each step within the facilities planning, design, and management process. It examines best practices for site and building: energy, conservation, reclamation, recycle-ability, air, water, waste, sound, ecological literacy, and management tools. CSU

**Engineering 204
Building Automation & Controls**

Unit(s): 3.0

Class Hours: 48 Lecture total.

In this course, students learn the basic principles of building automation and controls for energy management. Topics include control devices, signals, logic, and applications for various systems, such as electrical, lighting, HVAC, plumbing, fire protection, security, access control, voice-data-video, and elevator systems. CSU

**Engineering 205
Engineering Programming and Problem-Solving**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.

Prerequisite: Engineering 183 with a minimum grade of C.

This course includes fundamental studies of data handling and processing in engineering. It utilizes the MATLAB environment to provide students with a working knowledge of computer-based problem-solving methods relevant to science and engineering. It introduces the fundamentals of procedural and object-oriented programming, numerical analysis, and data structures. Examples and assignments in the course are drawn from practical applications in engineering, physics, and mathematics. CSU

**Engineering 228
Descriptive Geometry**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.

Application of the concepts of orthographic projection to the solution of three-dimensional problems arising in the various branches of engineering. Introductory computer aided drafting/design concepts or applications. Suggested preparation: Engineering 122 or 125. CSU/UC

**Engineering 235
Statics**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Physics 217 and Mathematic 185 with a minimum grade of C (Both classes can be taken concurrently).

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

**Engineering 240 (C-ID ENGR 230)
Dynamics**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Engineering 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

**Engineering 250
Electric Circuits**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Mathematics 280 and Physics 227 with a minimum grade of C (Both may be taken concurrently).

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

**Engineering 250L
Electric Circuits Laboratory**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Engineering 250 with a minimum grade of C or concurrent enrollment.

Selected laboratory exercises in engineering circuit analysis. Resistive, RL, RC, and RLC circuits and circuit analysis theorems. CSU/UC

**Engineering 281
Properties of Engineering Materials**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Chemistry 209 and Physics 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)

English N50

Introduction to Written Communication

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Qualifying profile from English placement process.

Introduction to written communication including autobiographical, journal and summary writing, and responding to essays. Basic grammar and punctuation. Not applicable to associate degree. Students may be referred to the Learning Center.

English N60

Basics of Effective Writing

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: English N50 with a minimum grade of C or qualifying profile from English placement process.

Sentence structure and paragraph writing including reading-based modeling and integrated study skills. Not applicable to associate degree.

English 061

Introduction to Composition

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: English N60 with a minimum grade of C or qualifying profile from English placement process and Reading proficiency as assessed by the Reading assessment process.

Expository paragraph writing emphasizing various methods including argumentation. Practice in refining sentence skills and grammar.

English 098

Topics in English

Unit(s): 0.5 - 3.0

Class Hours: 8 - 48 Lecture total.

Specialized short course on topics related to needs of students. Not applicable to associate degree.

English 101 (C-ID ENGL 100)

Freshman Composition

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: English 061 or English for Multilingual Students 112 or Adult Basic Education 116 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

English 101H (C-ID ENGL 100)

Honors Freshman Composition

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: English 061 or English for Multilingual Students 112 or Adult Basic Education 116 or qualifying profile from English placement process AND a high school or college GPA of 3.0 or above.

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

English 102 (C-ID ENGL 105)

(C-ID ENGL 110)(C-ID ENGL 120)

Literature and Composition

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: English 101 or English 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

English 102H (C-ID ENGL 105)

(C-ID ENGL 110)(C-ID ENGL 120)

Honors Literature and Composition

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: English 101 or English 101H with a minimum grade of C and a high school or college GPA of 3.0 or above.

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

English 103 (C-ID ENGL 105)

Critical Thinking and Writing

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: English 101 or English 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

English 103H (C-ID ENGL 105)

Honors Critical Thinking and Writing

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: English 101 or English 101H with a minimum grade of C and high school or college GPA of 3.0 or above.

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

English 104

Language and Culture

Unit(s): 3.0

Class Hours: 48 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. CSU/UC

English 104H

Honors Language and Culture

Unit(s): 3.0

Class Hours: 48 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. Requires individual research and oral presentation of readings in a seminar setting. CSU/UC

English 206

Introduction to Language Structure and Use

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: English 101 or 101H with a minimum grade of C.

Introduction to the nature and structure of human language, first and second language acquisition, development of literacy, and language use. Comparisons of languages in the local area will be explored. CSU/UC

**English 213 (C-ID ENGL 200)****Creative Writing**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: English 101 or English 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

English 220**Survey of the Bible As Literature**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: English 101 or English 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

English 231 (C-ID ENGL 160)**Survey of English Literature I**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: English 101 or English 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

English 232 (C-ID ENGL 165)**Survey of English Literature II**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: English 101 or English 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

English 233A**Shakespeare's Comedies and Romances**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: English 101 or English 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 233ABCD. CSU/UC

English 233B**Shakespeare's Tragedies and History Plays**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: English 101 or English 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 233ABCD. CSU/UC

English 233C**Shakespeare's Theatre**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: English 101 or English 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 233ABCD. CSU/UC

English 241 (C-ID ENGL 130)**Survey of American Literature 1600-1865**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: English 101 or English 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

English 242 (C-ID ENGL 135)**Survey of American Literature, 1865-Present**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: English 101 or English 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

English 243**The Modern American Novel**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: English 101 or English 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

English 245**The Image of African Americans in Literature and Films**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: English 101 or English 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

English 246**Survey of Chicano Literature**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: English 101 or English 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

English 270 (C-ID ENGL 180)**Children's Literature**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: English 101 or English 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

English 271 (C-ID ENGL 140)**Survey of World Literature I**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: English 101 or English 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

English 272 (C-ID ENGL 145)**Survey of World Literature II**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: English 101 or English 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



English 278

Survey of Literature by Women

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: English 101 or English 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)

English As a Second Language N88

Verb Tenses

Unit(s): 1.5

Class Hours: 24 Lecture, 6 Laboratory total.

Prerequisite: Eligible for English

Multilingual Students 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)

English for Multilingual Students 055

Writing, Grammar and Reading I

Unit(s): 6.0

Class Hours: 96 Lecture total.

Prerequisite: Qualifying profile from ESL/EMLS placement process.

Sentence-level 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.

English for Multilingual Students 107

Writing, Grammar and Reading II

Unit(s): 6.0

Class Hours: 96 Lecture total.

Prerequisite: English Multilingual Students 055 with a minimum grade of C 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

English for Multilingual Students 109

Writing, Grammar and Reading III

Unit(s): 6.0

Class Hours: 96 Lecture total.

Prerequisite: English Multilingual Students 107 with a minimum grade of C or qualifying profile from ESL 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

English for Multilingual Students 110

Introduction to the Essay

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: EMLS 109 with a minimum grade of C 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

**SANTA ANA COLLEGE
ENGLISH FOR MULTILINGUAL STUDENTS (EMLS)**

EMLS/ESL courses are offered by the EMLS Dept. to serve bilingual, multilingual, and non-native speakers of English who need to improve their writing skills before enrolling in English 101. These courses address issues such as vocabulary, advanced sentence construction and writing fluency in paragraphs and essays.

Students who took ELD (English Language Development) classes in high school and studied regular English only in their senior year should take the TELD test (Test of English Language Development) to determine their college placement.

Students enrolled in EMLS courses should also enroll in a Reading class and possibly a Communication Studies class to enhance their writing and communication skills.

EMLS courses address writing problems that are common to bilingual students. EMLS 107 and EMLS 109 are transferable to California State University campuses as electives. EMLS 110 and EMLS 112 are transferable to CSU and UC campuses as electives.

Placement into any of these courses is based on the student's test score and qualifying profile OR completion of the previous course with a grade of A,B,C, or P.

ESL/EMLS COURSE	COMMUNICATION STUDIES COURSE	READING COURSE
INTERMEDIATE LEVEL COURSES		
EMLS 055	Communication Studies N52A	Reading N50
EMLS 107	Communication Studies N52AB	Reading N80
EMLS 109	Communication Studies N53 or 097	Reading 101
ADVANCED LEVEL COURSES		
EMLS 110	Communication Studies 096, 097 or N53	Reading 101
EMLS 112	Communication Studies 096, 097, and N53	Reading 101 or 102
FRESHMAN COMPOSITION		
English 101	Communication Studies 101 or 102	Reading 102 or 150

CEC Transfers often place here

High School Grads often place here

EMLS 107 and EMLS 109 are CSU transferable. EMLS 110 and 112 are CSU and UC transferable..



English for Multilingual Students 112 Advanced Composition

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: English Multilingual Students 110 with a minimum grade of C or qualifying profile from ESL/EMLS placement process and Passing Proficiency on the Reading 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)

Entrepreneurship 100 Introduction to Innovation and Entrepreneurship

Unit(s): 3.0

Class Hours: 48 Lecture total.

Learn that venture creation is a process. Explore the types of ventures one can create and explore venture stories. Discover an overview of the entrepreneurial process. Learn to see opportunities. Discover the resources necessary to turn a dream into a business. CSU

Entrepreneurship 100 Introduction to Innovation and Entrepreneurship

Unit(s): 3.0

Class Hours: 48 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

Entrepreneurship 101 Entrepreneurs and Success

Unit(s): 1.0

Class Hours: 16 Lecture total.

Learn the psychology of becoming a successful entrepreneur. Discover how to find your 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

Entrepreneurship 102 Entrepreneurial Ideas and Creativity

Unit(s): 1.0

Class Hours: 16 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

Entrepreneurship 103 Innovations and Opportunities

Unit(s): 2.0

Class Hours: 32 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. May be repeated. CSU

Entrepreneurship 104 Business Models

Unit(s): 2.0

Class Hours: 32 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

Entrepreneurship 105 Social Media, Bootstrapping, and Market Validation

Unit(s): 2.0

Class Hours: 32 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

Entrepreneurship 106 Building an Entrepreneurial Team

Unit(s): 2.0

Class Hours: 32 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

Entrepreneurship 107 Money, Finance and Accounting for Entrepreneurs

Unit(s): 2.0

Class Hours: 32 Lecture total.

Learn how entrepreneurial finance works - where, when and how to get financing debt, equity, bootstraps, angels and venture capitalists. Determine how much you need, when and how to get it. Learn the critical importance of leveraging resources. Learn that cash flow is critical to entrepreneurs. Learn what you really need to know about bookkeeping and accounting and how to use numbers to make smarter decisions. CSU

Entrepreneurship 108 Business Plans for Entrepreneurs

Unit(s): 2.0

Class Hours: 32 Lecture total.

Learn to complete an effective and useful business plan with elements such as a company overview, customer pain, solution, competition, team, business model, and financials. Learn the different audiences for a business plan. CSU

Entrepreneurship 109 Powerful Presentations

Unit(s): 2.0

Class Hours: 32 Lecture total.

Learn how to collaborate and translate business plans into powerful sales tools using cutting-edge technology to create presentations using video, animation, visuals, stories and simulations. Discover how to bring business dreams alive. CSU

Entrepreneurship 110 Capstone Business Simulations

Unit(s): 3.0

Class Hours: 48 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

Entrepreneurship 111 Capstone Entrepreneurial Case Studies

Unit(s): 3.0

Class Hours: 48 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

Entrepreneurship 120 Introduction to Working As a Freelance Independent Contractor

Unit(s): 1.0

Class Hours: 16 Lecture total.

Learn the freelancer mindset. Learn how to work where you want, when you want, and how you want. Plan your life, your career, and your business. Develop your goals. Understand your personal strengths and skills. Learn how to turn your strengths and skills into viable, sustainable businesses by finding what is unique about you and turning that uniqueness into a personal brand. CSU

Entrepreneurship 121 People Skills for the Freelancer

Unit(s): 1.0

Class Hours: 16 Lecture total.

Learn "people skills" - also known as "soft skills" - communication skills, technological skills, negotiation skills, and presentation skills needed to be successful as a freelance independent contractor. Develop your soft skills and selling skills to compete for business and keep customers happy. CSU



Entrepreneurship 122
Opportunities in Freelance Industries And Trades

Unit(s): 1.0

Class Hours: 16 Lecture total.

Learn how to spot opportunities within a trade and industry. Learn how to network and connect within a trade and industry in order to get business and get mentors. Learn to understand the competitive economic landscape within a trade or industry. Develop opportunities into a viable, sustainable business. Understand how to travel and work in a global economy. CSU

Entrepreneurship 123
Marketing to Attract Customers and Grow Your Freelance Business

Unit(s): 1.0

Class Hours: 16 Lecture total.

Learn marketing as it applies to the freelance independent contractor. Learn market research, business development, branding, pricing, promotion, advertising, social media, sales, distribution and customer service. Understand how to identify and sell to a niche market. Learn how to market on a limited budget. Learn how to market yourself online. CSU

Entrepreneurship 124
Survival Finance and Accounting for the Freelancer-Show Me the Money

Unit(s): 1.0

Class Hours: 16 Lecture total.

Learn personal finance, business finance and basic accounting. Learn financial survival tips for the freelancer. Understand sources of financing, cash and cash flow, QuickBooks, financial statements, pricing and profits, getting paid, accounts receivables and payables, record-keeping, budgeting and taxes. Understand how to open and operate your business on a limited budget. CSU

Entrepreneurship 125
Launch Your Freelance Business

Unit(s): 1.0

Class Hours: 16 Lecture total.

Learn how to launch a freelance business. Set-up and manage your operations. Learn about office locations, business licenses, insurance, government regulations, lawyers, entity formation, intellectual property, health insurance, work-life balance, leadership, teamwork, management and human resources. Topics include managing yourself, managing others and working with subcontractors. CSU

Entrepreneurship 140
Fashion E-Commerce

Unit(s): 3.0

Class Hours: 48 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 Fashion Design Merchandising 140.) CSU

Entrepreneurship 147
Acting for the Non-Actor

Unit(s): 3.0

Class Hours: 48 Lecture, 16 Laboratory total.

Acting techniques are learned to enhance life and business skills. Intended to help all individuals become more successful professionals in their chosen careers. (Same as Theatre Arts 107.) CSU

Entrepreneurship 148
The Business of Entertainment

Unit(s): 3.0

Class Hours: 48 Lecture total.

The study of business issues relating to the entertainment industry with a focus on the formats of film, web, TV, and live performance. This course is designed for individuals desiring a career in entertainment. (Same as Theatre 108.) CSU

Entrepreneurship 174
Microsoft Dynamics for Business and Management

Unit(s): 4.0

Class Hours: 64 Lecture total.

Hands-on training in the use of Microsoft Dynamics integrated software, covering setup and transaction processing for modules pertaining to inventory control, supply chain management, Enterprise Resource Planning (ERP), and other aspects of operational planning and management. Suggested preparation: completion of, or current enrollment in Accounting 102 and 173. (Same as Accounting 174.) CSU

ENVIRONMENTAL STUDIES (ENVR)

Environmental Studies 140 (C-ID GEOL 130)
Environmental Geology

Unit(s): 3.0

Class Hours: 48 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

Environmental Studies 170
Environmental Challenges of the 21st Century

Unit(s): 1.0

Class Hours: 16 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

Environmental Studies 200
Environment of Man

Unit(s): 3.0

Class Hours: 48 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

Environmental Studies 259
Environmental Biology

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory 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)

Ethnic Studies 101
Introduction to Ethnic Studies

Unit(s): 3.0

Class Hours: 48 Lecture total.

Historical and cultural survey of ethnic groups and relations in the U.S. among European Americans, Native Americans, Asian Pacific Americans, African Americans, and Mexican Americans/Latinos from the pre-Columbian period to the present. CSU/UC

Ethnic Studies 101H
Honors Introduction to Ethnic Studies

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

Historical and cultural survey of ethnic groups and relations in the U.S. among European Americans, Native Americans, Asian Pacific Americans, African Americans, and Mexican Americans/Latinos from the pre-Columbian period to present. Enriched and intensive historical and cultural survey presented in a seminar setting. CSU/UC

**Ethnic Studies 102****The Borderlands: Cultural Context and Intercultural Relations**

Unit(s): 3.0

Class Hours: 48 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, Chicano/Latino, and Native American ethnic groups within mainstream U.S. society. CSU/UC

FASHION DESIGN MERCHANDISING (FDM)**Fashion Design Merchandising 005
Laboratory**

Unit(s): 0.5 - 1.5

Class Hours: 24 - 72 Laboratory total.

Corequisite: Concurrent enrollment in Fashion Design Merchandising 052 or Fashion Design Merchandising 053 or Fashion Design Merchandising 055 or Fashion Design Merchandising 056 or Fashion Design Merchandising 057 or Fashion Design Merchandising 058 or Fashion Design Merchandising 070 or Fashion Design Merchandising 080 or Fashion Design Merchandising 081 or Fashion Design Merchandising 105A;

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. Grade: Pass/No Pass Only. Open Entry/Open Exit.

**Fashion Design Merchandising 005A
Computer Fashion Laboratory**

Unit(s): 0.5 - 1.5

Class Hours: 24 - 72 Laboratory total.

Corequisite: Concurrent enrollment in Fashion Design Merchandising 005A Fashion Design Merchandising 080 or Fashion Design Merchandising 081 or Fashion Design Merchandising 111A or Fashion Design Merchandising 111B or Fashion Design Merchandising 111C or Fashion Design Merchandising 140 or Fashion Design Merchandising 213 or Fashion Design Merchandising 215 or Fashion Design Merchandising 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. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Fashion Design Merchandising 052**Knit and Swim Suit Sewing****Formerly: Knit Sewing**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory 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.

Fashion Design Merchandising 053**Introduction to Sewing**

Unit(s): 2.5

Class Hours: 32 Lecture, 24 Laboratory total.

Basics in sewing; how to use the sewing machine, understanding pattern terms and tools and constructing basic samples, skirts, and shirts. Grade: Pass/No Pass Only.

Fashion Design Merchandising 055**Children's Clothing**

Unit(s): 2.0

Class Hours: 24 Lecture, 24 Laboratory total.

Quick basic sewing techniques. Emphasis on individualizing designs to create a variety of functional, durable children's garments.

Fashion Design Merchandising 056**Basic Sewing and Alterations****Formerly: Garment Alterations**

Unit(s): 1.0

Class Hours: 16 Lecture, 16 Laboratory total.

Basic sewing techniques used in the restyling and alteration of ready-made garments. Evaluation of fit and determination of appropriate styling changes emphasized.

Fashion Design Merchandising 057**Patterns for Dressmakers**

Unit(s): 3.5

Class Hours: 48 Lecture, 32 Laboratory total.

Recommended Preparation: Fashion Design Merchandising 105A and Fashion Design Merchandising 105B.

Basic flat pattern methods for designing original patterns and altering designs of commercial patterns for dressmakers. Students will construct their designed garments.

Fashion Design Merchandising 058**Decorative Apparel**

Unit(s): 0.5

Class Hours: 8 Lecture, 8 Laboratory total.

Application techniques of sewing embellishments on surface textures and patterns in creating ethnic inspired apparel designs. Grade: Pass/No Pass Only.

Fashion Design Merchandising 059**Fashion Modeling**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory total.

Modeling techniques of the formal fashion runway and informal showings, stressing preparation of the professional model. Grade: Pass/No Pass Only.

Fashion Design Merchandising 070**New York Study Tour**

Unit(s): 1.0

Class Hours: 8 Lecture, 32 Laboratory total.

Prerequisite: Fashion Design Merchandising 100 with a minimum grade of C.

This course exposes students to numerous apparel industry career paths and illuminates how those paths are interconnected. Students learn about current events & trending practices that are shaping the industry's focus. Further, students are provided with opportunity to network with numerous industry professionals, which can be instrumental in stimulating meaningful career endeavors. Students will travel to New York, the fashion capital of the United States. Students will enjoy exclusive access to design, production, & merchandising collaboration in action, all while exploring employment and internship opportunities. Students partake in prearranged visits that may include apparel/textile manufacturers, designer showrooms, CAD companies, trend forecasters, visual display showrooms, fashion publication offices, retail stores, buying offices, and museum collections. Students are responsible for transportation, accommodation, and other necessary expenses.

Fashion Design Merchandising 080**Embroidery**

Unit(s): 1.5

Class Hours: 16 Lecture, 24 Laboratory total.

Applied techniques of embroidered decorative embellishments of surface textures and patterns in creating apparel designs. Incorporation of embroidery software and machinery. CSU

Fashion Design Merchandising 081**Fabric Printing**

Unit(s): 1.5

Class Hours: 16 Lecture, 24 Laboratory total.

Application techniques of surface textures and patterns using screen printing techniques. Course includes digital application of artwork and preparation for printing.

Fashion Design Merchandising 100**Introduction to Fashion**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Traces and analyzes the fashion industry, trends, and designers from socio-economic, political, technological, and global influences; emphasis on current fashion careers. CSU



Fashion Design Merchandising 101 Buying and Merchandising

Unit(s): 3.0

Class Hours: 48 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

Fashion Design Merchandising 102 Promotion and Coordination

Unit(s): 3.0

Class Hours: 48 Lecture total.

A study of the directing and coordination of event promotions. Emphasis on promotion planning and presentation, salesmanship, and event production. CSU

Fashion Design Merchandising 103 Fashion Selection

Unit(s): 3.0

Class Hours: 48 Lecture total.

Apparel selection for professional and personal needs based on design, culture, and fashion trends. This course will examine the psychological, sociological, and cultural significance of clothing. Included is the analysis of color, line, and design as they relate to garment selection and wardrobe planning. The fashion professional uses this information to better design, produce, and select products to meet the needs of a culturally diverse consuming population. This course is designed for both men and women. CSU

Fashion Design Merchandising 104 Textile Fibers and Fabrics

Unit(s): 3.0

Class Hours: 48 Lecture, 16 Laboratory 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

Fashion Design Merchandising 105A Beginning Sewing

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Construction techniques for beginners with emphasis on learning how to use the sewing machine and reading a pattern. Students will construct a skirt, shirt, lined garment, and a compilation of construction techniques. Students will learn basic sewing techniques, how to select fabrics, and how to conduct fittings. CSU

Fashion Design Merchandising 105B Intermediate Sewing

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory 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

Fashion Design Merchandising 106 Advanced Sewing

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Recommended Preparation: Fashion Design Merchandising 105A with a minimum grade of C.

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

Fashion Design Merchandising 107 Custom Tailoring

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Advanced sewing students will apply traditional tailoring techniques in completing a lined suit or coat, including hand pad stitching and edge taping. CSU

Fashion Design Merchandising 108 RTW Quality Analysis

Unit(s): 3.0

Class Hours: 48 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. CSU

Fashion Design Merchandising 109 Flat Pattern Techniques

Unit(s): 3.5

Class Hours: 48 Lecture, 24 Laboratory total.

Recommended Preparation: Fashion Design Merchandising 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

Fashion Design Merchandising 110 Corset Construction

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Recommended Preparation: Fashion Design Merchandising 105A with a minimum grade of C.

Class covers historical and modern corsets. Students will build a corset from start to finish, including pattern drafting, boning construction, and fitting techniques. CSU

Fashion Design Merchandising 111A Fashion Illustration Techniques

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory 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

Fashion Design Merchandising 111B Fashion Illustration

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Prerequisite: Fashion Design Merchandising 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

Fashion Design Merchandising 111C Fashion Portfolio Development

Unit(s): 1.0

Class Hours: 16 Lecture, 16 Laboratory total.

Prerequisite: Fashion Design Merchandising 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

Fashion Design Merchandising 112 Advanced Flat Pattern Making

Unit(s): 3.0

Class Hours: 40 Lecture, 40 Laboratory 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

**Fashion Design Merchandising 113****Fashion Draping**

Unit(s): 3.5

Class Hours: 48 Lecture, 32 Laboratory total.
Recommended Preparation: Fashion Design Merchandising 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

Fashion Design Merchandising 125**Display Merchandising**

Unit(s): 3.0

Class Hours: 48 Lecture, 16 Laboratory total.

Visual merchandise techniques and material in relation to the elements and principles of design and how it relates to the retail environment. CSU

Fashion Design Merchandising 136 (C-ID**THTR 174)****Fundamentals of Costume Design**

Unit(s): 3.0

Class Hours: 48 Lecture, 16 Laboratory 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 Theatre Arts 136.) CSU/UC

Fashion Design Merchandising 140**Fashion E-Commerce**

Unit(s): 3.0

Class Hours: 48 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.) CSU

Fashion Design Merchandising 212**Advanced Draping**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Prerequisite: Fashion Design Merchandising 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

Fashion Design Merchandising 213**Apparel Line Production**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: Fashion Design Merchandising 100 or 108, and 109 and 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

Fashion Design Merchandising 214**Tech-Packs for Manufactured Apparel****Formerly: Fashion Design Merchandising 214, Manufacturing and Grading**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Introduction and application of garment industry manufacturing processes using production equipment to mass produce a consumer targeted product. Included are techniques in building a tech-pack, garment knock-offs, pattern adjustments, appropriate fit, and grading techniques. Suggested preparation: Fashion Design Merchandising 105A, 111A, and 109. CSU

Fashion Design Merchandising 215**Computer Fashion Illustration**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Recommended Preparation: Fashion Design Merchandising 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

Fashion Design Merchandising 216**Computer Flat Pattern Design, Grading, And Marking**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Recommended Preparation: Fashion Design Merchandising 109

Computerized apparel pattern drafting, size grading, and marking are taught using Tuka Tech software as tools. Prior to enrollment, student must be able to manually draft patterns, grade patterns, and layout markers. CSU

Fashion Design Merchandising 299**Cooperative Work Experience Education**

Unit(s): 1.0 - 6.0

Class Hours: 60 - 450 Lecture 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. Grade: Pass/No Pass Only. Open Entry/Open Exit. CSU

FIRE ACADEMY (FAC)**Fire Academy 007****Strength and Conditioning for the Fire Service**

Unit(s): 2.5

Class Hours: 8 Lecture, 96 Laboratory total.

Corequisite: Concurrent enrollment in Fire Academy 050 or 060. Prerequisite: Concurrent enrollment in Fire Academy 050 or 060.

Strength and Conditioning course to prepare those interested in a career in the Fire Service. Grade: Pass/No Pass Only.

Fire Academy 008**Biddle Physical Ability Test (PAT)****Examination**

Unit(s): 0.1

Class Hours: 2 Lecture, 2 Laboratory 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. Grade: Pass/No Pass Only.

Fire Academy 017**Physical Ability Instructor**

Unit(s): 0.1

Class Hours: 2 Lecture, 2 Laboratory total.

Designed to train instructors to administer the Biddle Physical Ability Test and to evaluate instructors' ability to administer the physical ability test. Grade: Pass/No Pass Only.

Fire Academy 018A**Firefighter I Physical Ability Practice (Exam)**

Unit(s): 0.1 - 0.3

Class Hours: 5 - 16 Laboratory 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. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Fire Academy 018B**Beginning Fire Physical Ability Training**

Unit(s): 0.1 - 1.0

Class Hours: 8 - 64 Laboratory 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 exercises using fire hose, ladders, stairs, and calisthenics, proper body mechanics, lifting techniques and physical conditioning principles. Grade: Pass/No Pass Only. Open Entry/Open Exit.

**Fire Academy 018C****Intermediate Fire Physical Ability Training**

Unit(s): 0.1 - 1.0

Class Hours: 8 - 64 Laboratory 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 exercises using fire hose, ladders, stairs, and calisthenics, proper body mechanics, lifting techniques and physical conditioning principles. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Fire Academy 018D**Advanced Fire Physical Ability Training**

Unit(s): 0.1 - 1.0

Class Hours: 8 - 64 Laboratory 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 exercises and training circuits using fire hose, ladders, stairs, and calisthenics, proper body mechanics, lifting techniques and physical conditioning principles. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Fire Academy 031**Fire Specialist Academy, Vehicle Rescue And Extrication**

Unit(s): 0.5

Class Hours: 8 Lecture, 8 Laboratory total.

A course in rescue incident management and includes police coordination/cooperation, assessment, triage, extrication, field equipment, and stabilization. Not offered every semester. Grade: Pass/No Pass Only.

Fire Academy 033**Swift Water Rescue**

Unit(s): 0.3

Class Hours: 16 Laboratory total.

Water rescue equipment and practices at a first responder level.

Fire Academy 035**Confined Space Rescue Technician**

Unit(s): 1.0

Class Hours: 10 Lecture, 30 Laboratory 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. Grade: Pass/No Pass Only.

Fire Academy 041A**Reserve Firefighter Academy**

Unit(s): 9.0

Class Hours: 144 Lecture, 22 Laboratory 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. Grade: Pass/No Pass Only.

Fire Academy 050**Fire Suppression Training Academy**

Unit(s): 22.5

Class Hours: 266 Lecture, 294 Laboratory total.

Corequisite: Concurrent enrollment in Fire Academy 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.

Fire Academy 052**Flashover**

Unit(s): 0.2

Class Hours: 8 Laboratory total.

Theory of fire characteristics and behavior with emphasis on ROLLOVER and FLASHOVER. Students will participate in live fire training, hose lays, and correct nozzle methods. Grade: Pass/No Pass Only.

Fire Academy 060**Basic Fire Academy**

Unit(s): 11.5

Class Hours: 560 Laboratory total.

Prerequisite: Fire Technology 101, 102, 103, 104, 105, 106, 121 with a minimum grade of C and Fire Technology 121L and Fire Academy 008 with a minimum grade of Pass. Current NREMT (National Registry Emergency Medical Technician) and NFPA 1582 Medical Clearance.

This course provides the skills and knowledge needed for the entry-level professional fire fighter to perform his/her duties safely, effectively, and competently. The curriculum is based on the 2013 edition of NFPA 1001 Standard for Fire Fighter Professional Qualifications, the 2012 edition of NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications, and the 2008 edition of NFPA 472 Standard for competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents. The seven overarching themes of the California State Fire Fighter I curriculum are: general knowledge germane to the profession, fire department communications, fire ground operations, rescue operations, preparedness and maintenance, wildland suppression activities, and hazardous materials/WMD.

Fire Academy 062**Basic Incident Command Systems**

Unit(s): 0.3

Class Hours: 16 Laboratory total.

Basic principles of command, knowledge, and skills common to all positions in the Incident Command System.

Fire Academy 062A**Strike Team Leader Orientation (ICS)**

Unit(s): 0.5

Class Hours: 8 Lecture total.

State Office of Emergency Service procedures for fire departments assigned to OES when responding to a mutual aid incident.

**Fire Academy 063****Rescue Systems 1: Basic Rescue Skills**

Unit(s): 0.5

Class Hours: 40.00 Laboratory total.

Prerequisite: Fire Academy 060, Basic Fire Academy with a minimum grade of C 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, repelling, 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. Grade: Pass/No Pass Only.

Fire Academy 063A**Heavy Rescue Systems 2**

Unit(s): 0.8

Class Hours: 20.00 Lecture, 20.00 Laboratory total.

Specialized technical information regarding the analysis of rescue problems, preparation procedures, and the execution of rescue techniques. Grade: Pass/No Pass Only.

Fire Academy 063C**US&R Heavy Equipment and Rigging Specialist (HERS)**

Unit(s): 0.5

Class Hours: 24 Laboratory total.

The primary purpose of this course is to provide functional training to the Task Force members who serve on an Urban Search & Rescue Task Force. Grade: Pass/No Pass Only.

Fire Academy 070**Firefighter I Certification Refresher Specialist (HERS)**

Unit(s): 1.0

Class Hours: 4 Lecture, 48 Laboratory 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-I 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. Grade: Pass/No Pass Only.

Fire Academy 071A**Ventilation Review**

Unit(s): 0.5

Class Hours: 8 Lecture, 8 Laboratory total.

Theory of positive pressure ventilation and panelized roofs; student will participate in walking, sounding, and cutting panelized roofs. Grade: Pass/No Pass Only.

Fire Academy 072**Emergency Trench Shoring**

Unit(s): 0.3

Class Hours: 8 Lecture, 8 Laboratory total.

To update fire personnel in emergency trench operations. Includes general safety and OSHA regulations, relative to open trenches or excavations in potentially hazardous situations. Grade: Pass/No Pass Only.

Fire Academy 076**Low Angle Rope Rescue Operational Formerly: Low Angle Rope Rescue**

Unit(s): 1.0

Class Hours: 12 Lecture, 20 Laboratory 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 I course. Additional materials fees may be required for state training course completion certificate. Not offered every semester. Grade: Pass/No Pass Only.

Fire Academy 076A**High Angle Rope Rescue**

Unit(s): 1.0

Class Hours: 12 Lecture, 12 Laboratory 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. Grade: Pass/No Pass Only.

Fire Academy 079A**S-339 Division/Group Supervisor- ALL RISK**

Unit(s): 0.5

Class Hours: 4 Lecture, 16 Laboratory 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. Grade: Pass/No Pass Only.

Fire Academy 079B**S-330 Task Force-Strike Leader**

Unit(s): 0.5

Class Hours: 2 Lecture, 22 Laboratory total.

Prerequisite: Qualified as any single resource boss. Must bring evidence to first class session or be dropped from the course. 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. Grade: Pass/No Pass Only.

**Fire Academy 079D****S-440 Planning Section Chief**

Unit(s): 0.5

Class Hours: 4 Lecture, 16 Laboratory total.

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. Grade: Pass/No Pass Only.

Fire Academy 080A**S-234 Wildland Firing Methods and Procedures**

Unit(s): 0.5

Class Hours: 24 Lecture total.

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. May be repeated. Grade: Pass/No Pass Only.

Fire Academy 080B**S-190 Introduction to Wildland Fire Behavior**

Unit(s): 0.3

Class Hours: 4 Lecture, 4 Laboratory 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. Grade: Pass/No Pass Only.

Fire Academy 080D**S-290 Intermediate Wildland Fire Behavior**

Unit(s): 0.5

Class Hours: 32 Laboratory 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. Grade: Pass/No Pass Only.

Fire Academy 084**Hazardous Materials First Responder Operational Level**

Unit(s): 1.0

Class Hours: 18 Lecture, 6 Laboratory 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. Grade: Pass/No Pass Only.

Fire Academy 084A**Hazardous Materials First Responder Operational, Decontamination**

Unit(s): 0.3

Class Hours: 4 Lecture, 4 Laboratory 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. Grade: Pass/No Pass Only.

FIRE OFFICER TRAINING (FOT)**Fire Officer Training 006B****Truck Company Academy**

Unit(s): 0.2

Class Hours: 16 Lecture total.

Truck company operations and ventilation skills at a first responder level. May be repeated. Grade: Pass/No Pass Only.

Fire Officer Training 006D**CSFM Terrorism and RIC**

Unit(s): 0.5

Class Hours: 24 Lecture total.

This course is designed to prepare firefighters to become familiar with terrorism tactics and (RIC) rapid intervention crew. Meets Orange County, L.A. City Fire Chiefs, and State Fire Marshall's certification standards. Grade: Pass/No Pass Only.

Fire Officer Training 008A**S-339 Division/Group Supervisor All Risk**

Unit(s): 0.5

Class Hours: 24 Laboratory 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. 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. Grade: Pass/No Pass Only.

Fire Officer Training 008C**S-244 Field Observer**

Unit(s): 0.4

Class Hours: 20 Lecture total.

Designed to train firefighters in the basic fire behavior factors that will aid them in safe and effective control of wildland fires. Not offered every semester. May be repeated. Grade: Pass/No Pass Only.

Fire Officer Training 008E**S-445 Incident Training Specialist**

Unit(s): 0.3

Class Hours: 16 Laboratory 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.

Fire Officer Training 012**Ethical Leadership**

Unit(s): 0.2

Class Hours: 8 Lecture total.

Provides information and sample techniques for ethical leadership in the appraisal, in the classroom. Grade: Pass/No Pass Only.



Fire Officer Training 016
CSFA Terrorism

Unit(s): 0.3

Class Hours: 16 Lecture total.

This course is designed to prepare firefighters to become familiar with terrorism tactics. Meets Orange County, L.A. City Fire Chiefs, and State Fire Marshall's certification standards. Grade: Pass/No Pass Only.

Fire Officer Training 017
Fire Control 5

Unit(s): 0.5

Class Hours: 15 Lecture, 9 Laboratory 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. Grade: Pass/No Pass Only.

Fire Officer Training 018
Ground Safety and Survival

Unit(s): 0.3

Class Hours: 16 Laboratory total.

Fire Ground Safety & Survival is designed to prepare participants to understand and provide several group crisis interventions, specifically demobilizations, defusing and critical incident stress debriefings. Grade: Pass/No Pass Only.

Fire Officer Training 019
Emergency Trench Rescue

Unit(s): 0.5

Class Hours: 24 Laboratory total.

Prerequisite: Fire Academy 060 with a minimum grade of C.

This course is designed to train fire service personnel in hands-on application of the techniques necessary to safely affect a rescue from an excavation or trenching cave-in. Topics include critical considerations while responding to trenching emergencies, evaluation of cave-in scenes, basic life support procedures and temporary protection for victims, specialized tool usage, shoring techniques, and below grade rescue safety procedures. Grade: Pass/No Pass Only.

Fire Officer Training 032
ICS-300 Intermediate ICS

Unit(s): 0.5

Class Hours: 24 Laboratory total.

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. Grade: Pass/No Pass Only.

Fire Officer Training 033
ICS-400 Incident Command

Unit(s): 0.5

Class Hours: 24 Laboratory 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. Grade: Pass/No Pass Only.

Fire Officer Training 035
Auto Extrication Tactics

Unit(s): 0.3 - 0.5

Class Hours: 16 - 24 Laboratory 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. Grade: Pass/No Pass Only.

Fire Officer Training 036
Training Instructor 1A: Cognitive Lesson Delivery

Unit(s): 0.5

Class Hours: 40 Laboratory total.

An introduction to fire service training methods with emphasis on using the occupational analysis, identifying training needs, and training others to perform manipulative skills.

Fire Officer Training 037
Training Instructor 1B: Psychomotor Lesson Delivery

Unit(s): 0.5

Class Hours: 40 Laboratory total.

Prerequisite: Students must meet the OSFM-Training Instructor 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 prepares students to train others in technical skills as stipulated for Fire Officer I candidates.

Fire Officer Training 039
Training Instructor 1C: Instructional Development Techniques

Unit(s): 0.5

Class Hours: 40 Laboratory total.

Prerequisite: Fire Officer Training 036 and 037 with a minimum grade of B. Students must bring documentation of prerequisites to first class meeting; failure to comply will result in student being dropped.

Designed for instructors desiring certification as an instructor for the California State Fire Education Systems (CFSTES).

Fire Officer Training 044
Fire Investigation 1A: Fire Origin and Cause Determination
Formerly: Fire Academy 251A, Fire Investigation 1A

Unit(s): 0.8

Class Hours: 40 Laboratory 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.

Fire Officer Training 045
Fire Investigation 1B: Techniques of Fire Investigation

Unit(s): 0.5

Class Hours: 40 Laboratory 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.

Fire Officer Training 046
Fire Management 1: Management/Supervision for Company Officers
Formerly: Fire Academy 261, Fire Management 1

Unit(s): 0.8

Class Hours: 40 Laboratory total.

This course prepares or enhances the first line supervisor's ability to supervise subordinates. It introduces key management concepts and practices, which includes discussions about decision making, time management, leadership styles, personnel evaluations, and counseling guidelines

**Fire Officer Training 047****Fire Command 1A: Command Principles for Company Officers**

Unit(s): 0.8

Class Hours: 40 Laboratory total.

This course provides instruction and simulation time pertaining to the initial decision and action processes at a working fire. Topics include the fire officer, fire behavior, fireground resources, operations, and management.

Fire Officer Training 048**Fire Command 1B: Incident Management for Company Officers**

Unit(s): 0.8

Class Hours: 40 Laboratory total.

Prerequisite: OSFM-I-200 with a Pass or a minimum grade of B and Fire Command 1A with a minimum grade of B. Students must bring documentation of prerequisites to first class meeting; failure to comply will result in student being dropped.

This course provides the student with information on tactics, strategies, and scene management for multi-casualty incidents, hazardous materials incidents, and wildland fires. Each student also has the opportunity to increase his or her knowledge and skills by handling initial operations at these types of incidents through simulation and class activities.

Fire Officer Training 049**Fire Command 1C: I-Zone Fire Fighting For Company Officers**

Unit(s): 0.8

Class Hours: 40 Laboratory total.

Prerequisite: Fire Command 1-A and Fire Command 1-B with a minimum grade of 80%. Students must bring documentation of prerequisites to first class meeting. Failure to comply will result in student being dropped.

This course will examine the responsibilities of a company officer assigned to a wildland/urban interface incident. It will familiarize the structure company officer with the specific duties and tasks associated with the wildland incidents.

Fire Officer Training 050**Community Emergency Response Team**

Unit(s): 0.2 - 0.6

Class Hours: 10 - 30 Laboratory total.

Educating the public to respond to terrorism response issues, theories, and methodologies for disaster mitigation. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Fire Officer Training 078**S-230 Crew Boss (Single Resource)**

Unit(s): 0.5

Class Hours: 26 Laboratory 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. Grade: Pass/No Pass Only.

Fire Officer Training 078A**S-130 Firefighter Training - Wildland**

Unit(s): 0.7

Class Hours: 32 Lecture total.

Designed to train firefighters in the basic fire behavior factors that will aid them in safe and effective control of wildland fires. Grade: Pass/No Pass Only.

Fire Officer Training 078B**S-215L Urban Wildland Interface Firefighting**

Unit(s): 0.7

Class Hours: 32 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. Grade: Pass/No Pass Only.

Fire Officer Training 078C**S-371 Helibase Manager**

Unit(s): 0.5

Class Hours: 32 Laboratory total.

Prerequisite: Student should be qualified as a helicopter manager, single resource.

Designed for Fire Personnel qualifying within the Incident Command System as a Helibase manager. Topics include strike team orientation, position responsibilities, helicopter safety operations and weather condition affecting helicopter landing. Grade: Pass/No Pass Only.

Fire Officer Training 079**S-404 Safety Officer**

Unit(s): 0.5

Class Hours: 24 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. May be repeated. Grade: Pass/No Pass Only.

Fire Officer Training 079B**S-231 Engine Boss**

Unit(s): 0.3

Class Hours: 16 Laboratory 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 sizeup considerations, tactics, and wildland/urban interface. Grade: Pass/No Pass Only.

Fire Officer Training 079C**S-330 Task Force-Strike Team Leader**

Unit(s): 0.5

Class Hours: 24 Laboratory 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. Grade: Pass/No Pass Only.

Fire Officer Training 080**Motion Picture/Television Safety Officer**

Unit(s): 0.5

Class Hours: 24 Lecture total.

Course is designed to prepare Fire personnel in special effects, film production safety and stunt coordination, line producers, location managers and film commissioners. May be repeated. Grade: Pass/No Pass Only.

Fire Officer Training 100**Emergency Medical Technician**

Unit(s): 8.0

Class Hours: 96 Lecture, 96 Laboratory total.

Prerequisite: American Heart Association CPR Healthcare Provider Card with AED.

Basic course for EMT. Satisfies requirements for County/State EMS Authority. Prepares students to take the National Registry certifying exam (NREMT) for the State certification. CSU

**Fire Officer Training 130A****Fire Inspector 1A: Duties and Administration**
Formerly: Fire Officer Training 026, Fire Inspector 1A

Unit(s): 1.5

Class Hours: 24 Lecture total.

Prerequisite: FTC 104, Fire Prevention Technology and Fire Technology 105, Building Construction for Fire Protection and Fire Technology 106, Fire Protection Equipment and Systems 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

Fire Officer Training 130B**Fire Inspector 1B: Introduction to Fire And Life Safety**

Formerly: Fire Officer Training 027, Fire Inspector 1B: Introduction to Fire and Life Safety

Unit(s): 1.5

Class Hours: 24 Lecture total.

Prerequisite: FTC 104, Fire Prevention Technology and Fire Technology 105, Building Construction for Fire Protection and Fire Technology 106, Fire Protection Equipment and Systems 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: Fire Officer Training 130A, Fire Inspector 1A: Duties and Administration 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

Fire Officer Training 130C**Fire Inspector 1C: Field Inspection**
Formerly: Fire Officer Training 028, Fire Inspector 1C: Field Inspection

Unit(s): 1.5

Class Hours: 24 Lecture total.

Prerequisite: FTC 104, Fire Prevention Technology and Fire Technology 105, Building Construction for Fire Protection and Fire Technology 106, Fire Protection Equipment and Systems 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: Fire Officer Training 130B, Fire Inspector 1B: Fire and Life Safety 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



Fire Officer Training 130D
Fire Inspector 1D: Field Inspector

Unit(s): 1.0

Class Hours: 16 Lecture total.

Prerequisite: Fire Technology 104, Fire Technology 105, and Fire Technology 106 with a minimum grade of C.

Recommended Preparation: Fire Officer Training 130A with a minimum grade of C.

This course provides students with basic knowledge of the Fire Fighter 1's field inspection roles and responsibilities specific to California including tents, canopies, and temporary membrane structures; fireworks and explosives; and wildland urban interface environments. CSU

Fire Officer Training 134
Fire Prevention 3A: Hydraulic Sprinkler Calculations

Unit(s): 0.8

Class Hours: 40 Laboratory total.

Prerequisite: Fire Prevention 2A, 2B and 2C with a minimum grade of 80%. Students must bring documentation of prerequisites to first class meeting. Failure to comply will result in student being dropped.

Specialized and technical information regarding fire protection sprinkler design. This course will review the mathematics and drafting skills necessary to design systems. CSU

Fire Officer Training 135
Fire Prevention 3B: Plan Review

Unit(s): 0.8

Class Hours: 40 Laboratory total.

Prerequisite: Fire Prevention 2B with a minimum grade of 80%. Students must bring documentation of prerequisite to first class meeting. Failure to comply will result in student being dropped.

This course provides hands-on training. Topics include codes, standards and local amendments, site-plan review, building construction and characteristics, fire protection equipment, multi-family occupancies, commercial buildings, care facilities, drinking/dining facilities, shopping malls, and high-rise buildings. CSU

Fire Officer Training 136
Fire Inspector 2A: Fire Prevention Administration

Unit(s): 1.0

Class Hours: 16 Laboratory total.

Prerequisite: Certified CA Fire Inspector I or completion of Fire Inspector 1A, 1B and 1C. Student must present State Certificates to the instructor at the first class meeting. Students who fail to meet this requirement will be dropped from the course.

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. CSU

Fire Officer Training 137
Fire Inspector 2B: Fire and Life Safety Requirements

Unit(s): 1.5

Class Hours: 24 Lecture total.

Prerequisite: Fire Inspector 2A: Fire Prevention Administration. Students must bring documentation of prerequisite to the first class meeting: failure to comply will result in the student being dropped.

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. CSU

Fire Officer Training 138
Fire Inspector 2C: Inspecting Fire & Life Safety Systems

Unit(s): 1.0

Class Hours: 16 Laboratory total.

Prerequisite: Fire Inspector 2A: Fire Prevention Administration. Students must bring documentation of prerequisite to the first class meeting: failure to comply will result in the student being dropped.

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. CSU

Fire Officer Training 139
Fire Inspector 2D: Hazardous Materials, Operations, and Processes

Unit(s): 2.0

Class Hours: 32 Lecture total.

Prerequisite: Fire Inspector 2A: Fire Prevention Administration. Students must bring documentation of prerequisite to the first class meeting: failure to comply will result in the student being dropped.

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. CSU

Fire Officer Training 140
Fire Instructor 2A: Techniques of Evaluation

Unit(s): 0.5

Class Hours: 40 Laboratory total.

Prerequisite: Students must have completed the following courses: OSFM - Fire Instructor 1A, Fire Instructor 1B or Training Instructor 1A, Training Instructor 1B, Training Instructor 1C, 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 the instructor/supervisor with the techniques of evaluation. Course includes: construction of written and performance tests, as well as test planning, test analysis, test security, and evaluation of test result effectiveness. CSU

Fire Officer Training 141
Fire Instructor 2B: Group Dynamics and Problem Solving

Unit(s): 0.5

Class Hours: 40 Laboratory total.

Prerequisite: OSFM - Fire Instructor 1A and Fire Instructor 1B and Fire Instructor 2A with a grade of B or better or Training Instructor 1A and Training Instructor 1B and Training Instructor 1C 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 is designed to develop leadership skills. Group dynamics, problem-solving techniques, and interpersonal relations are utilized in staff meetings, brainstorming sessions, and conference meetings. Skills are developed for conducting formal public meetings, panel discussions, and forums. CSU

**Fire Officer Training 142****Fire Instructor 2C: Employing Audiovisual Aids**

Unit(s): 0.8

Class Hours: 40 Laboratory total.

Prerequisite: Fire Instructor 1A and 1B with a minimum grade of 80%. Students must bring documentation of prerequisites to first class meeting. Failure to comply will result in student being dropped.

This course covers the principles and selection of media in the instructional process, employment of basic and advanced forms of instructional media, use of computers in the instructional process, and individualized instruction programs. Teaching demonstrations are required of all participants. CSU

Fire Officer Training 143**Fire Instructor 3: Master Instructor Competency Evaluation**

Unit(s): 0.5

Class Hours: 40 Laboratory total.

Prerequisite: One of the following four Level 1 options 1) Fire Instructor 1A and Fire Instructor 1B or 2) Fire Instructor 1A, Training Instructor 1A, and Training Instructor 1C or 3) Fire Instructor 1B, Training Instructor 1B, and Training Instructor 1C or 4) Training Instructor 1A, Training Instructor 1B, and Training Instructor 1C and Fire Instructor 2A, 2B, 2C. All courses must have been passed.

This course provides information necessary to deliver the Training Instructor 1A, 1B, and 1C courses and gives additional instruction in classroom communications. Students will adapt a current training instruction cognitive lesson plan and deliver a 30-minute teaching demonstration. This course is mandatory for a person who desires to teach Training Instructor 1A, 1B, or 1C. CSU

Fire Officer Training 144**Fire Investigation 2A: Criminal and Legal Procedures**

Unit(s): 0.5

Class Hours: 40 Laboratory 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

Fire Officer Training 145**Fire Investigation 2B: Field Case Studies**

Unit(s): 0.5

Class Hours: 40 Laboratory 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

Fire Officer Training 146**Fire Management 2A: Organizational Development and Human Relations**

Unit(s): 0.5

Class Hours: 40 Laboratory total.

Prerequisite: Fire Management 1 with a passing 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 the foundations of 1) individual behavior, personality and emotions, motivational concepts, individual decision making; 2) group behavior, work teams, group dynamics, group communication, conflict and negotiations, power and politics, leadership and creating trust; and 3) organizational structure, human resources policies and practices, organizational culture, and organizational change and development. CSU

Fire Officer Training 147**Fire Management 2B: Fire Service Financial Management**

Unit(s): 0.5

Class Hours: 40 Laboratory total.

Prerequisite: Students must have taken Fire Management 1 and obtained a minimum grade of 80%. Students must bring documentation of prerequisites to first class meeting; Failure to comply will result in student being dropped.

This course is designed to provide insight into the cyclical nature of budgeting and financial management. As a management course, the student will become familiar with essential elements of the financial planning, budget preparation, budget justification, and budget controls. CSU

Fire Officer Training 148**Fire Management 2C: Personnel and Labor Relations**

Unit(s): 0.5

Class Hours: 40 Laboratory total.

Prerequisite: Students must have completed Fire Management 1-A with a passing grade of 80% and Fire Command 1-B with a passing grade of 80%. Students must bring documentation of prerequisites to first class meeting. Failure to comply will result in student being dropped.

This course is designed to provide a fire manager with knowledge and insight of personnel, human resource, diversity management, legal mandates, labor relations, and related areas. Topics include areas of organizational development, productivity, recruitment and selection, performance systems, discipline, and collective bargaining. CSU

Fire Officer Training 149**Fire Management 2D: Strategic Planning**

Unit(s): 0.5

Class Hours: 40 Laboratory total.

Prerequisite: Fire Management 1, Per State Fire Training; Note: Student must bring documentation of prerequisites to first class meeting. Failure to comply shall result in the student being dropped.

Designed to educate Chief Officers on the strategic planning process and why each of the steps is critical for success. Although the process may be thought of as extremely complicated, this course will provide advice and tools to assist in the strategic planning process. This course is intended to be consistent with critical elements of the accreditation process and its associated self-assessment manual. CSU



Fire Officer Training 150
Fire Management 2E: Ethics and the Challenge of Leadership
 Formerly: FAC 262E, Fire Management 2E,
Contemporary Issues and Concepts
 Unit(s): 0.8
 Class Hours: 40 Laboratory total.

In this course, students will correlate personal core values and characteristics to ethical decisions and behaviors. Students will explore ethical and principle-centered leadership, including ethical systems, ethical dilemmas, and ethical decision-making models. Students will examine challenges and develop strategies for leading in public safety organizations serving diverse and dynamic communities. CSU

Fire Officer Training 150A
Company Officer 2A: Human Resource Management for Company Officers
 Unit(s): 1.5
 Class Hours: 16 Lecture, 24 Laboratory total.
 Prerequisite: Fire Academy 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

Fire Officer Training 150B
Company Officer 2B: General Administration Functions for Company Officers
 Unit(s): 0.5
 Class Hours: 8 Lecture, 12 Laboratory 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

Fire Officer Training 150C
Company Officer 2C: Fire Inspections and Investigations
 Unit(s): 1.5
 Class Hours: 25 Lecture, 15 Laboratory 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

Fire Officer Training 150D
Company Officer 2D: All-Risk Command Operations for Company Officers
 Unit(s): 1.5
 Class Hours: 16 Lecture, 24 Laboratory 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 or equivalent.
 Recommended Preparation: 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

Fire Officer Training 150E
Company Officer 2E: Wildland Incident Operations for Company Officers
 Unit(s): 1.5
 Class Hours: 24 Lecture, 16 Laboratory total.
 Prerequisite: Fire Officer Training 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. 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

Fire Officer Training 151
Fire Command 2A: Command Tactics At Major Fires
 Unit(s): 0.8
 Class Hours: 40 Laboratory total.
 Prerequisite: I-300, Intermediate ICS, with a pass and Fire Command 1A with a minimum grade of 80%. Students must bring documentation of prerequisites to first class meeting. Failure to comply will result in student being dropped.

This course prepares the officer to use management techniques and the Incident Command System when commanding multiple alarms or large suppression forces. CSU

Fire Officer Training 152
Fire Command 2B: Management of Major Hazardous Materials Incidents
 Unit(s): 0.8
 Class Hours: 40 Laboratory total.
 Prerequisite: Fire Command 1-A with a minimum 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 Incident Commanders with the skills and competency necessary to mitigate an incident, initiate remedial action, and ensure the restoration of normal services with a comprehensive resource management approach. CSU

**Fire Officer Training 153****Fire Command 2C: High-Rise Fire Fighting Tactics**

Unit(s): 0.5

Class Hours: 40 Laboratory total.

Prerequisite: Completion of Fire Command 2-A and I-300. Students must bring documentation of prerequisites to first class meeting; failure to comply will result in student being dropped.

This course is delivered using a systematic approach and can be applied to both small and large high-rise buildings.

Topics include prefire planning, building inventory, problem identification, ventilation methods, water supply, elevators, life safety, strategy and tactics, application of the ICS, and specific responsibilities. CSU

Fire Officer Training 154**Fire Command 2D: Planning for Large Scale Disasters**

Unit(s): 0.8

Class Hours: 40 Laboratory total.

Prerequisite: I-300, Intermediate ICS with a pass and Fire Command 2A with a minimum grade of 80%. Students must bring documentation of prerequisites to first class meeting. Failure to comply will result in student being dropped.

This course includes principles of disaster planning and management, fire service emergency plans, emergency operation centers, case studies of various natural and man-made disasters, roles of local, state and federal OES and emergency management agencies, discussion of multi-hazard planning techniques, ICS and SEMS concepts, and principles of exercising emergency management staffs. CSU

Fire Officer Training 155**Fire Command 2E: Wildland Fire Fighting Tactics**

Unit(s): 0.8

Class Hours: 40 Laboratory total.

Prerequisite: I-300, Intermediate ICS with a pass and Fire Command 1C and 2A, with a minimum grade of 80%. Students must bring documentation of prerequisites to first class meeting. Failure to comply will result in student being dropped.

This course will examine California's wildland fire problem, wildland fire safety, weather effects, wildland fuels, wildland fire behavior, initial attack methods, using support equipment, using topographic maps, strategy and tactics, and air attack operations. CSU

Fire Officer Training 200**Public Education 1: Systematic Planning And Communication Skills**

Unit(s): 0.5

Class Hours: 40 Laboratory total.

Public fire safety education with emphasis on planning, local problems, public education strategies, audio visual aids, public media, and target populations. Meets California Fire Service Training and Education System (CFSTES) requirements for Public Education Officer 1. CSU

Fire Officer Training 205**Instructor I: Instructional Methodology**

Unit(s): 1.5

Class Hours: 16 Lecture, 24 Laboratory 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

Fire Officer Training 206**Instructor II: Instructional Development Tactics**

Unit(s): 1.5

Class Hours: 16 Lecture, 24 Laboratory total.

Prerequisite: Fire Officer Training 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

Fire Officer Training 207**Instructor III: Instructional Program Management**

Unit(s): 1.0

Class Hours: 16 Lecture, 20 Laboratory total.

Prerequisite: Fire Officer Training 205 with a minimum grade of C and Fire Officer Training 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

Fire Officer Training 210**Community Risk Educator Management**

Unit(s): 1.5

Class Hours: 24 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 IA 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 IA: 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



Fire Officer Training 273A
Chief Fire Officer 3A: Human Resource Management for Chief Fire Officers

Unit(s): 1.0

Class Hours: 16 Lecture, 10 Laboratory 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

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

Fire Officer Training 273B
Chief Fire Officer 3B: Budget and Fiscal Responsibilities for Chief Fire Officers

Unit(s): 0.5

Class Hours: 10 Lecture, 8 Laboratory 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

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

Fire Officer Training 273C
Chief Fire Officer 3C: General Administration Functions

Unit(s): 1.0

Class Hours: 14 Lecture, 10 Laboratory 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

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

Fire Officer Training 273D
Chief Fire Officer 3D: Emergency Service Delivery Responsibilities for Chief Fire Officers

Unit(s): 1.0

Class Hours: 16 Lecture, 8 Laboratory 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

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

Fire Officer Training 274A
Executive Chief Fire Officer 4A: Human Resource Management for the Executive Chief Fire Officer

Unit(s): 1.0

Class Hours: 16 Lecture, 12 Laboratory total.
 Prerequisite: Fire Officer Training 273A, Chief Fire Officer 3A: Human Resource Management for Chief Fire Officers and Fire Officer Training 273B, Chief Fire Officer 3B: Budget and Fiscal Responsibilities for Chief Fire Officers and Fire Officer Training 273C, Chief Fire Officer 3C: General Administration Functions and Fire Officer Training 273D, Chief Fire Officer 3D: Emergency Service Delivery Responsibilities for Chief Fire Officers with 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

Fire Officer Training 274B
Executive Chief Fire Officer 4B: Community & Government Relations

Unit(s): 0.5

Class Hours: 6 Lecture, 6 Laboratory total.
 Prerequisite: Fire Officer Training 273A, Chief Fire Officer 3A: Human Resource Management for Chief Fire Officers and Fire Officer Training 273B, Chief Fire Officer 3B: Budget and Fiscal Responsibilities for Chief Fire Officers and Fire Officer Training 273C, Chief Fire Officer 3C: General Administration Functions and Fire Officer Training 273D, Chief Fire Officer 3D: Emergency Service Delivery Responsibilities for Chief Fire Officers with 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



Fire Officer Training 274C
Executive Chief Fire Officer 4C:
Administration

Unit(s): 1.0

Class Hours: 16 Lecture, 16 Laboratory total.
 Prerequisite: Fire Officer Training 273A, Chief Fire Officer 3A: Human Resource Management for Chief Fire Officers and Fire Officer Training 273B, Chief Fire Officer 3B: Budget and Fiscal Responsibilities for Chief Fire Officers and Fire Officer Training 273C, Chief Fire Officer 3C: General Administration Functions and Fire Officer Training 273D, Chief Fire Officer 3D: Emergency Service Delivery Responsibilities for Chief Fire Officers with 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

Fire Officer Training 274D
Executive Chief Fire Officer 4D: Emergency Services Delivery

Unit(s): 1.0

Class Hours: 22 Lecture, 16 Laboratory total.
 Prerequisite: Fire Officer Training 273A, Chief Fire Officer 3A: Human Resource Management for Chief Fire Officers and Fire Officer Training 273B, Chief Fire Officer 3B: Budget and Fiscal Responsibilities for Chief Fire Officers and Fire Officer Training 273C, Chief Fire Officer 3C: General Administration Functions and Fire Officer Training 273D, Chief Fire Officer 3D: Emergency Service Delivery Responsibilities for Chief Fire Officers with 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

Fire Officer Training 274E
Executive Chief Fire Officer 4E: Health and Safety Course Plan

Unit(s): 0.5

Class Hours: 4 Lecture, 12 Laboratory total.
 Prerequisite: Fire Officer Training 273A, Chief Fire Officer 3A: Human Resource Management for Chief Fire Officers and Fire Officer Training 273B, Chief Fire Officer 3B: Budget and Fiscal Responsibilities for Chief Fire Officers and Fire Officer Training 273C, Chief Fire Officer 3C: General Administration Functions and Fire Officer Training 273D, Chief Fire Officer 3D: Emergency Service Delivery Responsibilities for Chief Fire Officers with 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)

Fire Public Safety 002
California Ocean Lifeguard-Aquatic Rescue Response Skills

Unit(s): 0.3 - 10.0

Class Hours: 16 - 480 Laboratory 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. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Fire Public Safety 005
EMT Recertification

Unit(s): 0.3 - 1.5

Class Hours: 6 - 24 Lecture total.

Prerequisite: Students must be in possession of a current EMT State certification or EMT National Registry certification.

Training and update for current EMTs. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Fire Public Safety 014
Rescue Operations- Refresher

Unit(s): 0.5 - 1.0

Class Hours: 12 Lecture, 10 - 24 Laboratory total.

Prerequisite: Fire Academy 060 with 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. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Fire Public Safety 016A
CA Fire Service Administrative Requirement

Unit(s): 0.5 - 1.0

Class Hours: 8 - 16 Lecture total.

Prerequisite: Completion of FAC 060 Basic Fire Academy or equivalent with a minimum grade of C. 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. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Fire Public Safety 017
Firefighter Refresher-Core Competencies

Unit(s): 0.5 - 2.0

Class Hours: 8 Lecture, 6 - 92 Laboratory total.

Prerequisite: Completion of an approved Fire Academy or signed statement by the agency's Fire Chief or designee stating the sponsored student has completed the training requirements for FFI or equivalent. Students must provide their own personal protective equipment and tools which meet current NFPA requirements for maintenance and repair.

Course reviews basic knowledge and skills used on the job. Provides the student the opportunity to reinforce their knowledge and refresh their skills in the areas most likely to lead to firefighter injury or death. Grade: Pass/No Pass Only. Open Entry/Open Exit.

**Fire Public Safety 018****Firefighter Survival**

Unit(s): 0.5 - 1.0

Class Hours: 4 Lecture, 12 - 36 Laboratory 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. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Fire Public Safety 027**Wildland Fire Safety Training Refresher**

Unit(s): 0.2 - 1.0

Class Hours: 4 - 16 Lecture, 1 - 10 Laboratory 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. Grade: Pass/No Pass Only.

FIRE TECHNOLOGY (FTC)**Fire Technology 101****Fire Protection Organization**

Unit(s): 3.0

Class Hours: 48 Lecture total.

This course provides an overview to fire protection and emergency services including: 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, and an overview of the life safety initiatives. CSU

Fire Technology 102**Fire Behavior and Combustion**

Unit(s): 3.0

Class Hours: 48 Lecture total.

This course explores the theories and fundamentals of how and why fires start, spread, and are controlled. CSU

Fire Technology 103**Principles of Fire and Emergency Services Safety and Survival**

Unit(s): 3.0

Class Hours: 48 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

Fire Technology 104**Fire Prevention**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Fire Technology 101 and 102 with 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

Fire Technology 105**Building Construction for Fire Protection**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Fire Technology 101 and 102 with 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

Fire Technology 106**Fire Protection Systems**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Fire Technology 101 and 102 with 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

Fire Technology 121**Physical Fitness for Public Safety Personnel**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Co-Requisite: Concurrent enrollment in Fire Technology 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

Fire Technology 121L**Physical Fitness for Public Safety Personnel - Performance and Assessment**

Unit(s): 0.3

Class Hours: 16 Laboratory total.

Co-Requisite: Concurrent enrollment in Fire Technology 121.

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. Grade: Pass/No Pass Only. CSU

FRENCH (FREN)**French 101****Elementary French I**

Unit(s): 5.0

Class Hours: 80 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

French 102**Elementary French II**

Unit(s): 5.0

Class Hours: 80 Lecture total.

Prerequisite: French 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

French 198**Topics in French**

Unit(s): 0.5 - 3.0

Class Hours: 8-48 Lecture total.

A specialized course on topics related to current needs of students. CSU

French 201**Intermediate French I**

Unit(s): 5.0

Class Hours: 80 Lecture total.

Prerequisite: French 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

**French 201H****Honors Intermediate French I**

Unit(s): 5.0

Class Hours: 80 Lecture total.

Prerequisite: French 102 with a minimum grade of C or three years of high school French, and a high school or college GPA of 3.0 or above.

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 student to use and evaluate library and electronic information sources. CSU/UC

French 202**Intermediate French II**

Unit(s): 5.0

Class Hours: 80 Lecture total.

Prerequisite: French 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

French 202H**Honors Intermediate French II**

Unit(s): 5.0

Class Hours: 80 Lecture total.

Prerequisite: French 201 or French 201H with a minimum grade of C or four years of high school French with a passing grade, and a high school or college GPA of 3.0 or above.

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

French 211**Intermediate Conversation and Composition I**

Unit(s): 2.0

Class Hours: 32 Lecture total.

Prerequisite: French 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

French 214**Intermediate Conversation and Composition II**

Unit(s): 2.0

Class Hours: 32 Lecture total.

Prerequisite: French 201 with a minimum grade of C or the equivalent, or four years of high school French, or concurrent enrollment in French 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)**Geography 100 (C-ID GEOG 125)****World Regional Geography**

Unit(s): 3.0

Class Hours: 48 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

Geography 100H (C-ID GEOG 125)**Honors World Regional Geography**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

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

Geography 101 (C-ID GEOG 110)**Physical Geography**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Introduction to the physical elements of geography: maps, earth/sun relationships, meteorology and climatology, natural vegetation, soils, and geomorphology. CSU/UC

Geography 101L (C-ID GEOG 111)**Physical Geography Laboratory**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Geography 101 with a minimum grade of C or concurrent enrollment in Geography 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

Geography 102 (C-ID GEOG 120)**Cultural Geography**

Unit(s): 3.0

Class Hours: 48 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

Geography 130 (C-ID GEOG 130)**Introduction to Weather and Climate**

Unit(s): 3.0

Class Hours: 48 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, adiabatics, climate, and climate change. CSU/UC

Geography 140 (C-ID GEOG 140)**California Geography**

Unit(s): 3.0

Class Hours: 48 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



Geography 155 (C-ID GEOG 155)
Introduction to Geographic Information Systems

Unit(s): 3.0

Class Hours: 48 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)

Geology 101 (C-ID GEOL 100)
Introduction to Geology

Unit(s): 3.0

Class Hours: 48 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

Geology 101L (C-ID GEOL 100L)
Introduction to Geology Laboratory

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Geology 101 with a minimum grade of C or concurrent enrollment in Geology 101.

Study of the common minerals and rocks. Map reading and interpretation of geology using topographic maps, geologic maps, and aerial photos. CSU/UC

Geology 112
Earthquakes

Unit(s): 1.0

Class Hours: 16 Lecture total.

Introduction to earthquakes, the processes that cause them, and the results of their occurrences. Required one-day field trip. CSU

Geology 140 (C-ID GEOL 130)
Environmental Geology

Unit(s): 3.0

Class Hours: 48 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

Geology 150
Introduction to Oceanography

Unit(s): 3.0

Class Hours: 48 Lecture total.

Introductory study of the ocean and its topography, sediments, circulation, shoreline processes, biological productivity and mineral resources. (Same as Earth Science 150.) CSU/UC

Geology 150H
Honors Introduction to Oceanography

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: High school or college G.P.A. of 3.0 or above.

An enriched study of the ocean's topography, sediments, circulation, shoreline processes, biological productivity and mineral resources. (Same as Earth Science 150H.) CSU/UC

Geology 162
Geologic Field Studies of the Mojave Desert

Unit(s): 1.0

Class Hours: 16 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

Geology 164
Geologic Field Studies of the Eastern Sierra Nevada

Unit(s): 2.0

Class Hours: 32 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

Geology 168
Geologic Field Studies of the Owens Valley

Unit(s): 1.0

Class Hours: 16 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

Geology 169
Geologic Field Studies of San Diego County

Unit(s): 1.0

Class Hours: 16 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

Geology 170
Geologic Field Studies of the Anza-Borrego Desert State Park

Unit(s): 1.0

Class Hours: 16 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

Geology 171
Geologic Field Studies of Sequoia and Kings Canyon National Parks

Unit(s): 1.0

Class Hours: 24 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. May be repeated. CSU

Geology 172
Geologic Field Studies of the California Coast

Unit(s): 2.0

Class Hours: 32 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

Geology 173
Geologic Field Studies of Death Valley

Unit(s): 1.0

Class Hours: 16 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. May be repeated. CSU

Geology 174
Geologic Field Studies of Joshua Tree National Park

Unit(s): 1.0

Class Hours: 16 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. May be repeated. CSU

Geology 201 (C-ID GEOL 111)
Introduction to Historical Geology

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory 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)

History 101 (C-ID HIST 150)

World Civilizations to the 16th Century

Unit(s): 3.0

Class Hours: 48 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

History 101H (C-ID HIST 150)

Honors World Civilizations to the 16th Century

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

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

History 102 (C-ID HIST 160)

World Civilizations Since the 16th Century

Unit(s): 3.0

Class Hours: 48 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

History 102H (C-ID HIST 160)

Honors World Civilizations Since the 16th Century

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

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

History 105

Ancient Mesoamerican Civilization

Unit(s): 3.0

Class Hours: 48 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

History 118

Social and Cultural History of the United States

Unit(s): 3.0

Class Hours: 48 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

History 120

The United States to 1865

Unit(s): 3.0

Class Hours: 48 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

History 120H

Honors the United States to 1865

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

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

History 121 (C-ID HIST 140)

The United States Since 1865

Unit(s): 3.0

Class Hours: 48 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

History 121H (C-ID HIST 140)

Honors the United States Since 1865

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

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

History 123

African American History to 1865

Unit(s): 3.0

Class Hours: 48 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

History 124

Mexican American History in the United States

Unit(s): 3.0

Class Hours: 48 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

History 124H

Honors Mexican American History in the United States

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

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

History 125

Native Americans in the U.S.

Unit(s): 3.0

Class Hours: 48 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

History 127

Women in U.S. History

Unit(s): 3.0

Class Hours: 48 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

History 133

History of California

Unit(s): 3.0

Class Hours: 48 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

**History 146****African American History From 1863 to The Present**

Unit(s): 3.0

Class Hours: 48 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

History 150**Latin American Civilization to Independence**

Unit(s): 3.0

Class Hours: 48 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

History 151**Modern Latin American Civilization**

Unit(s): 3.0

Class Hours: 48 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

History 153**History of Mexico**

Unit(s): 3.0

Class Hours: 48 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

History 163**Introduction to Southeast Asia History**

Unit(s): 3.0

Class Hours: 48 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

History 181**Survey of Chicana/Latina Women's History**

Unit(s): 3.0

Class Hours: 48 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)**Interdisciplinary Studies 117H****Honors Introduction to Global Studies**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

A multidisciplinary, student-driven, social science course dealing with a conceptual approach to the cultural, political and economic implications of globalization. Study groups and individual computer-based research focus on the geographic, historical, and contemporary settings of globalization as well as the development of cross-cultural and comparative research methodologies and analysis. CSU/UC

Interdisciplinary Studies 121**Humanities Through the Arts**

Unit(s): 3.0

Class Hours: 48 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

Interdisciplinary Studies 155**Human Sexuality**

Unit(s): 3.0

Class Hours: 48 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

Interdisciplinary Studies 200**Introduction to Liberal Studies**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: English 101 or 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)**Italian 120****Elementary Italian I**

Unit(s): 5.0

Class Hours: 80 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

Italian 121**Elementary Italian II**

Unit(s): 5.0

Class Hours: 80 Lecture total.

Prerequisite: Italian 120 with a minimum grade of C or two years of High School Italian.

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)**Japanese 101****Elementary Japanese I**

Unit(s): 5.0

Class Hours: 80 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

Japanese 102**Elementary Japanese II**

Unit(s): 5.0

Class Hours: 80 Lecture total.

Prerequisite: Japanese 101 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)**Kinesiology Activities 098****Topics**

Unit(s): 0.5 - 1.0

Class Hours: 24 - 54 Laboratory total.

Specialized activities courses on topics related to special needs of Kinesiology students.



Kinesiology Activities 107A

Beginning Badminton

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Instruction and practice includes the development of basic skills, techniques, and rules and strategies. A combination of Kinesiology Activities 107A, 160A, 169A, and Kinesiology Adapted Activities 205A may be taken a maximum of four enrollments. CSU/UC

Kinesiology Activities 107B

Intermediate Badminton

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Kinesiology Activities 107B with a minimum grade of C.

This course is designed to review and solidify the techniques and tactics associated with the game of badminton. Instruction focuses on doubles play. CSU

Kinesiology Activities 123

Personal Fitness Training

Unit(s): 1.0

Class Hours: 48 Laboratory 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. 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

Kinesiology Activities 140A

Beginning Karate

Unit(s): 1.0

Class Hours: 48 Laboratory 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. CSU/UC

Kinesiology Activities 150A

Beginning Hatha Yoga

Unit(s): 1.0

Class Hours: 48 Laboratory total.

This class is an investigation of the history, philosophy and practice of physical Hatha Yoga. Physical exercises are designed to improve muscle tone, flexibility, breath control, relaxation, and unity of mind, body, and spirit. A combination of Kinesiology Activities 150A, 170A, and Kinesiology Aerobic Fitness 150A may be taken a maximum of four enrollments. CSU/UC

Kinesiology Activities 155A

Beginning Self-Defense

Unit(s): 1.0

Class Hours: 48 Laboratory 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. A combination of Kinesiology Activities 140, 155A, Kinesiology Aerobic Fitness 156, 156A, and 156B may be taken a maximum of four enrollments. CSU/UC

Kinesiology Activities 160A

Beginning Tennis

Unit(s): 1.0

Class Hours: 48 Laboratory 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. A combination of Kinesiology Activities 107A, 160A, 169A, and Kinesiology Adapted Activities 205A may be taken a maximum of four enrollments. CSU/UC

Kinesiology Activities 169A

Beginning Wrestling

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Fundamentals of wrestling skills and techniques. Take-downs, escape, analysis of opponents strengths and weaknesses will be considered. Student will master rules, regulations, and ethics of the activity. A combination of Kinesiology Activities 107A, 160A, 169A, and Kinesiology Adapted Activities 205A may be taken a maximum of four enrollments. CSU/UC

Kinesiology Activities 169B

Intermediate Wrestling

Unit(s): 1.0

Class Hours: 54 Laboratory total.

Prerequisite: Kinesiology Activities 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

Kinesiology Activities 170A

Beginning Yoga

Unit(s): 1.0

Class Hours: 48 Laboratory total.

An exercise program involving postures to increase flexibility and core muscle strength as a way of improving and enhancing physical and mental alertness. A combination of Kinesiology Activities 150A, 170A, and Kinesiology Aerobic Fitness 150A may be taken a maximum of four enrollments. CSU/UC

Kinesiology Activities 200A

Beginning Intramural-Basketball

Unit(s): 1.0

Class Hours: 48 Laboratory 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. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

Kinesiology Activities 200B

Intermediate Intramural Sports-Basketball

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Kinesiology Activities 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. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

Kinesiology Activities 200C

Advanced Intramural Basketball

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Kinesiology Activities 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. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

**Kinesiology Activities 211A****Beginning Baseball**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Beginning fundamentals of fielding, throwing and hitting. Includes play situations with an emphasis on team offensive and defensive strategy. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

Kinesiology Activities 211B**Intermediate Baseball**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Kinesiology Activities 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. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

Kinesiology Activities 220A**Beginning Basketball**

Unit(s): 1.0

Class Hours: 48 Laboratory 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. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

Kinesiology Activities 220B**Intermediate Basketball**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Kinesiology Activities 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. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

Kinesiology Activities 220C**Advanced Basketball**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Kinesiology Activities 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. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

Kinesiology Activities 226A**Beginning Water Polo**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Recommended Preparation: Students must be able to swim and be comfortable in deep water.

Instruction and experience in the fundamentals and strategies of water polo. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

Kinesiology Activities 260A**Beginning Soccer**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

This course is designed to introduce/better acquaint students to the game of outdoor soccer. Emphasis is placed on rules, techniques, safety, and improving performance. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

Kinesiology Activities 260B**Intermediate Soccer**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Recommended Preparation: Kinesiology Activities 260A or High School Soccer experience.

This course is designed to review and solidify techniques and tactics associated with the game of outdoor soccer. Instruction focuses on improving performance in all aspects of the game: defense, midfield, attack, and special situations. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

Kinesiology Activities 265A**Beginning Indoor Soccer**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

This course is a fast moving, action filled form of soccer played in a smaller indoor area. It is designed to introduce and better acquaint students to the game of soccer. Emphasis is placed on rules and techniques needed to best perform in the sport of soccer. CSU/UC

Kinesiology Activities 265B**Intermediate Indoor Soccer**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Recommended Preparation: Kinesiology Activities 265A or High School Soccer Experience.

This course is a fast-moving, action filled form of soccer played in a smaller indoor area. It is designed to solidify skills and (team) tactics for students wanting to play the game of soccer. CSU/UC

Kinesiology Activities 270A**Beginning Softball**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Fundamentals of fielding, throwing, hitting, and base running. Includes play situations and an emphasis on team offensive and defensive strategy. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

Kinesiology Activities 290A**Beginning Volleyball**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Instruction and practice in fundamental skills techniques, strategies, basic rules, team offense and defense, and team concepts of Volleyball. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

Kinesiology Activities 290B**Intermediate Volleyball**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Recommended Preparation: Kinesiology Activities 290A with a minimum grade of B.

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. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC



KINESIOLOGY ADAPTED ACTIVITIES (KNAD)

Kinesiology Adapted Activities 098

Topics

Unit(s): 0.5 - 1.0

Class Hours: 24 - 54 Laboratory total.

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. Grade: Pass/No Pass Only.

Kinesiology Adapted Activities 198

Topics

Unit(s): 0.5 - 1.0

Class Hours: 24 - 54 Laboratory total.

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. Grade: Pass/No Pass Only. CSU

Kinesiology Adapted Activities 201A

Beginning Adapted Swimming

Unit(s): 0.5 - 1.0

Class Hours: 24 - 54 Laboratory total.

Prerequisite: 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

Kinesiology Adapted Activities 202A

Beginning Adapted Circuit Training

Unit(s): 0.5 - 1.0

Class Hours: 24 - 54 Laboratory total.

Prerequisite: 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

Kinesiology Adapted Activities 202B

Intermediate Adapted Circuit Training

Unit(s): 0.5 - 1.0

Class Hours: 24 - 54 Laboratory total.

Prerequisite: Kinesiology Adapted Activities 202A with a minimum grade of C and 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

Kinesiology Adapted Activities 205A

Beginning Adapted Badminton

Unit(s): 0.5 - 1.0

Class Hours: 24 - 54 Laboratory total.

Prerequisite: 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

Kinesiology Adapted Activities 208A

Beginning Adapted Aerobic Fitness

Unit(s): 0.5 - 1.0

Class Hours: 24 - 54 Laboratory total.

Prerequisite: Adapted Kinesiology Medical Release Form required.

The class is designed for students with disabilities and chronic conditions to develop knowledge and skills for improving cardiovascular fitness. Various aerobic and stretching exercises are performed to music. 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 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

Kinesiology Adapted Activities 208B

Intermediate Adapted Aerobic Fitness

Unit(s): 0.5 - 1.0

Class Hours: 24 - 54 Laboratory total.

Prerequisite: Kinesiology Adapted Activities 208A with a minimum grade of C and Adapted Kinesiology Medical Release Form required.

The class is designed for students with disabilities and chronic conditions to increase knowledge and skills competence in activities that improve cardiovascular fitness. Various aerobic and stretching exercises are performed to music. 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 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

Kinesiology Adapted Activities 211A

Beginning Adapted Aquatics

Unit(s): 0.5 - 1.0

Class Hours: 24 - 54 Laboratory total.

Prerequisite: 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 Adapted Activities 201A, 211A, 211B, Kinesiology Aquatics 201A, 201B, and 204 may be taken a maximum of four enrollments. CSU/UC



Kinesiology Adapted Activities 211B Intermediate Adapted Aquatics

Unit(s): 0.5 - 1.0

Class Hours: 24 - 54 Laboratory total.

Prerequisite: Kinesiology Adapted Activities 211A with a minimum grade of C and 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)

Kinesiology Aerobic Fitness 098

Topics (Formerly: E.S. Aerobic Fitness 098)

Unit(s): 0.5 - 1.0

Class Hours: 24 - 54 Laboratory total.

Specialized aerobic fitness courses related to the needs of Kinesiology students.

Kinesiology Aerobic Fitness 140

Walking/Jogging for Fitness

Unit(s): 1.0

Class Hours: 48 Laboratory 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. 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

Kinesiology Aerobic Fitness 140A

Beginning Walking/Jogging for Fitness

Unit(s): 1.0

Class Hours: 48 Laboratory 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. 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

Kinesiology Aerobic Fitness 143A

Beginning Extreme Fitness

Unit(s): 1.0

Class Hours: 48 Laboratory 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.) CSU/UC

Kinesiology Aerobic Fitness 144A

Beginning Cross Training

Unit(s): 1.0

Class Hours: 48 Laboratory 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. A combination of Kinesiology Aerobic Fitness 144A, Kinesiology Fitness 147A and 147B may be taken a maximum of four enrollments. CSU/UC

Kinesiology Aerobic Fitness 146A

Beginning Stability Ball

Unit(s): 1.0

Class Hours: 48 Laboratory 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. CSU/UC

Kinesiology Aerobic Fitness 146B

Intermediate Stability Ball Training

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Kinesiology Aerobic Fitness 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

Kinesiology Aerobic Fitness 150A

Beginning Stretch, Flex and Tone

Unit(s): 1.0

Class Hours: 48 Laboratory total.

A combination of stretching and toning exercises to increase strength, flexibility, and overall body fitness. A combination of Kinesiology Activities 150A, 170A, and Kinesiology Aerobic Fitness 150A may be taken a maximum of four enrollments. CSU/UC

Kinesiology Aerobic Fitness 156A

Beginning Cardio Kickboxing

Unit(s): 1.0

Class Hours: 48 Laboratory 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. A combination of Kinesiology Activities 140, 155A, Kinesiology Aerobic Fitness 156, 156A, and 156B may be taken a maximum of four enrollments. CSU/UC

Kinesiology Aerobic Fitness 156B

Intermediate Cardio Kickboxing

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Kinesiology Aerobic Fitness 156A with a minimum grade of C

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. A combination of Kinesiology Activities 140, 155A, Kinesiology Aerobic Fitness 156, 156A, and 156B may be taken a maximum of four enrollments. CSU/UC



Kinesiology Aerobic Fitness 157A
Beginning Cardio Pump

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Instruction in overall fitness development. This class is designed to incorporate weight lifting into a cardio 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

Kinesiology Aerobic Fitness 198

Topics

Unit(s): 0.5 - 1.0

Class Hours: 54 Laboratory total.

Specialized aerobic fitness courses on topics related to the needs of Kinesiology students. Grade: Pass/No Pass Only. CSU

KINESIOLOGY AQUATICS (KNAQ)

Kinesiology Aquatics 098

Topics (Formerly: E.S. Aquatics 198)

Unit(s): 0.5 - 1.0

Class Hours: 54 Laboratory total.

Specialized aquatics courses on topics related to special needs of Kinesiology students. Grade: Pass/No Pass Only.

Kinesiology Aquatics 198

Topics (Formerly: E.S. Aquatics 198)

Unit(s): 0.5 - 1.0

Class Hours: 54 Laboratory total.

Specialized aquatics course on topics related to the needs of Kinesiology students. CSU

Kinesiology Aquatics 201A

Beginning Swimming

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Instruction and experience in the basic stroke techniques and safety procedures of swimming. 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 Aquatics 201B

Lap Swimming

Formerly: Kinesiology Aquatics 201B, Intermediate Swimming

Unit(s): 1.0

Class Hours: 48 Laboratory 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. 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 Aquatics 204

Lifesaving

Unit(s): 1.5

Class Hours: 16 Lecture, 32 Laboratory total.

Prerequisite: Kinesiology Aquatics 201 with a minimum grade of C or Demonstrated proficiency in Kinesiology Aquatics 201 skills.

Instruction in techniques of aquatic safety and rescue. Review of all swimming and rescue strokes. Basics of carries and breaks related to rescue. Small craft and related safety considerations. Lifesaving certification available upon successful completion. 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)

Kinesiology Fitness 098

Topics

Unit(s): 0.5 - 1.0

Class Hours: 54 Laboratory total.

Specialized fitness activities courses on topics related to the needs of Kinesiology students. Grade: Pass/No Pass Only.

Kinesiology Fitness 100

Personal Fitness Evaluation

Unit(s): 0.5

Class Hours: 32 Laboratory total.

Personal evaluation of student's fitness level. Each student completes appointments that evaluate flexibility, strength, blood pressure, body composition, pulmonary function, resting electrocardiogram, and a graded exercise test. Students are also required to record 20 hours of exercise outside of class. Outside hours must be completed and supervised at an exercise science facility at the college where the student is enrolled. Designed for students without heart problems. Grade: Pass/No Pass Only. 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

Kinesiology Fitness 101A

Personal Fitness Evaluation I

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Personal evaluation of student's fitness level. Each student completes appointments that evaluate flexibility, strength, blood pressure, body composition, pulmonary function, resting electrocardiogram, and a graded exercise test. Students are also required to record 44 hours of exercise outside of class. Outside hours must be completed and supervised at an exercise science facility at the college where the student is enrolled. Designed for students without heart problems. Grade: Pass/No Pass Only. 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

Kinesiology Fitness 101B

Personal Fitness Evaluation II

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Kinesiology Fitness 101A with a minimum grade of C must complete 101A

Intermediate personal evaluation of student's fitness level. Each student completes appointments that evaluate flexibility, strength, blood pressure, body composition, pulmonary function, resting electrocardiogram, graded exercise test, and the BODPOD. Student test and evaluations will be compared to the results recorded in KNFI 101A. Students are also required to record 44 hours of exercise outside of class. Outside hours must be completed and supervised at an exercise science facility at the college where the student is enrolled. Designed for students without heart problems. Grade: Pass/No Pass Only. 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



Kinesiology Fitness 101C
Personal Fitness Evaluation III

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Kinesiology Fitness 127B with a minimum grade of C and must complete Kinesiology Fitness 101A and Kinesiology Fitness 101B.

Advanced personal evaluation of student's fitness level. Each student completes appointments that evaluate flexibility, strength, blood pressure, body composition, pulmonary function, resting electrocardiogram, graded exercise test, and the BODPOD. Student test and evaluations will be compared to the results recorded in KNFI 101A and KNFI 101B. Students will have a mastery level understanding of the analysis techniques used in the center. Students are also required to record 44 hours of exercise outside of class. Outside hours must be completed and supervised at an exercise science facility at the college where the student is enrolled. Designed for students without heart problems. Grade: Pass/No Pass Only. 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

Kinesiology Fitness 102
Personal Fitness Evaluation

Unit(s): 2.0

Class Hours: 96 Laboratory total.

Personal evaluation of student's fitness level. Each student completes appointments that evaluate flexibility, strength, blood pressure, body composition, pulmonary function, resting electrocardiogram, and a graded exercise test. Students are also required to record 92 hours of exercise outside of class. Outside hours must be completed and supervised at an exercise science facility at the college where the student is enrolled. Designed for healthy individuals with no heart problems. Grade: Pass/No Pass Only. 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

Kinesiology Fitness 109A
Beginning Circuit Training

Unit(s): 0.5

Class Hours: 32 Laboratory 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. Grade: Pass/No Pass Only. 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

Kinesiology Fitness 109B
Intermediate Circuit Training

Unit(s): 0.5

Class Hours: 32 Laboratory total.

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. Grade: Pass/No Pass Only. 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

Kinesiology Fitness 109C
Advanced Circuit Training

Unit(s): 0.5

Class Hours: 32 Laboratory total.

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. Grade: Pass/No Pass Only. 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

Kinesiology Fitness 110A
Beginning Circuit Training

Unit(s): 1.0

Class Hours: 48 Laboratory 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. Grade: Pass/No Pass Only. (Same as Kinesiology Fitness 112A.) 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

Kinesiology Fitness 110B
Intermediate Circuit Training

Unit(s): 1.0

Class Hours: 48 Laboratory total.

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. Grade: Pass/No Pass Only. (Same as Kinesiology Fitness 112B.) 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

Kinesiology Fitness 110C
Advanced Circuit Training

Unit(s): 1.0

Class Hours: 48 Laboratory total.

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. Grade: Pass/No Pass Only. (Same as Kinesiology Fitness 112C.) 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



**Kinesiology Fitness 112A
Beginning Circuit Training**

Unit(s): 1.0

Class Hours: 48 Laboratory 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. (Same as Kinesiology Fitness 110A.) CSU/UC

**Kinesiology Fitness 112B
Intermediate Circuit Training**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Kinesiology Fitness 112A with a minimum grade of C/P or Kinesiology Fitness 110A with a minimum grade of 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. (Same as Kinesiology Fitness 110B.) CSU/UC

**Kinesiology Fitness 112C
Advanced Circuit Training**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Kinesiology Fitness 112B with a minimum grade of C/P or Kinesiology Fitness 110B with a minimum grade of 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. (Same as Same as Kinesiology Fitness 110C.) CSU/UC

**Kinesiology Fitness 115A
Beginning Cardiovascular Conditioning**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

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. Grade: Pass/No Pass Only. 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

**Kinesiology Fitness 115B
Intermediate Cardiovascular Conditioning**

Unit(s): 1.0

Class Hours: 48 Laboratory 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. Grade: Pass/No Pass Only. 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

**Kinesiology Fitness 115C
Advanced Cardiovascular Conditioning**

Unit(s): 1.0

Class Hours: 48 Laboratory 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. Grade: Pass/No Pass Only. 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

**Kinesiology Fitness 147A
Beginning Weight Training**

Unit(s): 1.0

Class Hours: 48 Laboratory 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. CSU/UC

**Kinesiology Fitness 147B
Intermediate Weight Training**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Kinesiology Fitness 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. CSU/UC

**KINESIOLOGY HEALTH
EDUCATION (KNHE)**

Kinesiology Health Education 098

Topics (Formerly: E.S. Health Education 098)

Unit(s): 0.5 - 3.0

Class Hours: 8 - 54 Lecture total.

Specialized health-related courses on topics related to the needs of Kinesiology students. Grade: Pass/No Pass Only.

**Kinesiology Health Education 101
Healthful Living**

Unit(s): 3.0

Class Hours: 48 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

**Kinesiology Health Education 102
Women's Health Issues**

Unit(s): 3.0

Class Hours: 48 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

**Kinesiology Health Education 103
Men's Health Issues**

Unit(s): 3.0

Class Hours: 48 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



Kinesiology Health Education 104 Nutrition and Fitness

Unit(s): 2.0

Class Hours: 32 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

Kinesiology Health Education 105 (C-ID KIN 101 = KNHE 105 + 107))

First Aid and Personal Safety

Unit(s): 1.5

Class Hours: 24 Lecture total.

This course involves the theory and detailed demonstration of first aid care. Student's learn accident prevention, assessing a victim's condition, and immediate care to accident victims. American Heart Association first aid certification upon successful completion. May be repeated for recertification. Completion of Kinesiology Health Education 105 and 107 equate to C-ID KIN 101. CSU/UC

Kinesiology Health Education 106 Cardiopulmonary Resuscitation and First Aid

Unit(s): 3.0

Class Hours: 48 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

Kinesiology Health Education 107 (C-ID KIN 101 = KNHE 105 + 107))

Cardiopulmonary Resuscitation

Unit(s): 2.0

Class Hours: 32 Lecture total.

This course involves the theory and detailed demonstration in artificial respiration and manual artificial circulation (CPR) that is recommended for use in cardiac arrest cases. Instruction in the Automatic External Defibrillator (AED) is included. Successful completion may lead to American Heart Association Heartsaver or Health Care Provider with AED Certificate. May be repeated for recertification. Completion of Kinesiology Health Education 105 and 107 equate to C-ID KIN 101. CSU/UC

Kinesiology Health Education 198

Topics

Unit(s): 0.5 - 3.0

Class Hours: 8 - 54 Lecture total.

Specialized health-related courses on topics related to the needs of Kinesiology students. Grade: Pass/No Pass Only. CSU/UC

KINESIOLOGY INTERCOLLEGIATE ATHLETICS (KNIA)

Kinesiology Intercollegiate Athletics 098

Topics (Formerly: E.S. Intercollegiate Athletics 098)

Unit(s): 0.5 - 3.0

Class Hours: 8 - 54 Lecture total.

Specialized athletics courses on topics related to the needs of student-athletes. Grade: Pass/No Pass Only.

Kinesiology Intercollegiate Athletics 125 Conditioning for Football

Unit(s): 1.0

Class Hours: 48 Laboratory 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. May be repeated. CSU/UC

Kinesiology Intercollegiate Athletics 128 Conditioning for Athletes

Unit(s): 0.5

Class Hours: 31 Laboratory total.

An exercise program designed for athletes who participate in intercollegiate sports. Emphasis will be on the development of speed, endurance, flexibility, and strength. May be repeated. CSU/UC

Kinesiology Intercollegiate Athletics 128 Conditioning for Athletes

Unit(s): 1.0

Class Hours: 48 Laboratory total.

An exercise program designed for athletes who participate in intercollegiate sports. Emphasis will be on the development of speed, endurance, flexibility, and strength. May be repeated. CSU/UC

Kinesiology Intercollegiate Athletics 133 Off Season Swimming

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Recommended Preparation: Recommended Kinesiology Aquatics 201A with a minimum grade of C.

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. May be repeated. CSU/UC

Kinesiology Intercollegiate Athletics 134 Golf-Playing Lesson - Off Season

Unit(s): 1.0

Class Hours: 48 Laboratory total.

This course is designed to provide student athletes with skill development and conditioning in preparation for advanced golf play. Emphasis is placed upon advanced techniques and playing lessons delivered on an actual golf course. May be repeated. CSU/UC

Kinesiology Intercollegiate Athletics 171 Wrestling - Off Season

Unit(s): 1.0

Class Hours: 48 Laboratory total.

This course is designed as a skills development and conditioning class for student athletes interested in wrestling. Fundamentals of wrestling, analysis of opponents strengths and weakness, and knowledge of rules and regulations of the sport are presented. May be repeated. CSU/UC

Kinesiology Intercollegiate Athletics 198 Topics

Unit(s): 0.5 - 3.0

Class Hours: 8 - 54 Lecture total.

Specialized athletics courses on topics related to the needs of student-athletes. Grade: Pass/No Pass Only. CSU/UC

Kinesiology Intercollegiate Athletics 201 Baseball Men

Unit(s): 3.0

Class Hours: 162 Laboratory 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

Kinesiology Intercollegiate Athletics 202 Basketball-Men

Unit(s): 3.0

Class Hours: 162 Laboratory 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



**Kinesiology Intercollegiate Athletics 204
Football-Men**

Unit(s): 3.0

Class Hours: 162 Laboratory 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

**Kinesiology Intercollegiate Athletics 206
Swimming-Men**

Unit(s): 3.0

Class Hours: 162 Laboratory 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

**Kinesiology Intercollegiate Athletics 209
Water Polo - Men**

Unit(s): 3.0

Class Hours: 162 Laboratory 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 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

**Kinesiology Intercollegiate Athletics 210
Wrestling-Men**

Unit(s): 3.0

Class Hours: 162 Laboratory 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

**Kinesiology Intercollegiate Athletics 211
Softball-Women**

Unit(s): 3.0

Class Hours: 162 Laboratory 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

**Kinesiology Intercollegiate Athletics 212
Basketball-Women**

Unit(s): 3.0

Class Hours: 162 Laboratory 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

Kinesiology Intercollegiate Athletics 213

Volleyball-Women

Unit(s): 3.0

Class Hours: 162 Laboratory 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

**Kinesiology Intercollegiate Athletics 214
Golf-Women**

Unit(s): 3.0

Class Hours: 162 Laboratory total.

This course is designed for student athletes with exceptional golf talent so they can engage in intercollegiate golf competition. Emphasis is placed upon application of rules and regulations of collegiate golf play as well as execution of advanced golf techniques and strategies. Students must meet C.O.A. eligibility requirements and pass a health screening prior to participation. May be repeated. CSU/UC

**Kinesiology Intercollegiate Athletics 216
Soccer-Men**

Unit(s): 3.0

Class Hours: 162 Laboratory 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

**Kinesiology Intercollegiate Athletics 217
Swimming-Women**

Unit(s): 3.0

Class Hours: 162 Laboratory total.

Recommended Preparation: Recommended Kinesiology Intercollegiate Athletics 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

**Kinesiology Intercollegiate Athletics 218
Track-Women**

Unit(s): 3.0

Class Hours: 162 Laboratory 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

**Kinesiology Intercollegiate Athletics 219
Cross Country-Women**

Unit(s): 3.0

Class Hours: 162 Laboratory 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



**Kinesiology Intercollegiate Athletics 220
Soccer-Women**

Unit(s): 3.0

Class Hours: 162 Laboratory 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

**Kinesiology Intercollegiate Athletics 221
Water Polo-Women**

Unit(s): 3.0

Class Hours: 162 Laboratory total.

Recommended Preparation: Recommended Kinesiology Intercollegiate Athletics 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

Kinesiology Intercollegiate Athletics 223

Baseball

Unit(s): 1.0

Class Hours: 48 Laboratory 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. May be repeated. CSU/UC

**Kinesiology Intercollegiate Athletics 227
Off Season Water Polo**

Unit(s): 1.0

Class Hours: 48 Laboratory 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. May be repeated. CSU/UC

**Kinesiology Intercollegiate Athletics 230
Preseason Football**

Unit(s): 0.5

Class Hours: 4 Lecture, 16 Laboratory 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

**Kinesiology Intercollegiate Athletics 231
Football Camp**

Unit(s): 1.0

Class Hours: 8 Lecture, 32 Laboratory 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

**Kinesiology Intercollegiate Athletics 232
Football**

Unit(s): 1.0

Class Hours: 48 Laboratory 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. May be repeated. CSU/UC

**Kinesiology Intercollegiate Athletics 235
Speed and Agility**

Unit(s): 0.5

Class Hours: 24 Laboratory 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. May be repeated. CSU/UC

**Kinesiology Intercollegiate Athletics 235
Speed and Agility**

Unit(s): 1.0

Class Hours: 48 Laboratory 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. May be repeated. CSU/UC

**Kinesiology Intercollegiate Athletics 240
Advanced Basketball Skills-Men**

Unit(s): 1.0

Class Hours: 48 Laboratory 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

**Kinesiology Intercollegiate Athletics 261
Soccer-Women**

Unit(s): 0.5

Class Hours: 32 Laboratory total.

Recommended Preparation: High school varsity soccer experience.

This soccer class is designed for student-athlete sport conditioning and technical and tactical skill development. May be repeated. CSU/UC

**Kinesiology Intercollegiate Athletics 261
Soccer-Women**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Recommended Preparation: High school varsity soccer experience.

This soccer class is designed for student-athlete sport conditioning and technical and tactical skill development. May be repeated. CSU/UC

**Kinesiology Intercollegiate Athletics 262
Soccer-Men**

Unit(s): 0.5

Class Hours: 32 Laboratory total.

Recommended Preparation: High school varsity soccer experience.

This soccer class is designed for student-athlete sport conditioning and technical and tactical skill development. May be repeated. CSU/UC

**Kinesiology Intercollegiate Athletics 262
Soccer-Men**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Recommended Preparation: High school varsity soccer experience.

This soccer class is designed for student-athlete sport conditioning, and technical and tactical skill development. May be repeated. CSU/UC



**Kinesiology Intercollegiate Athletics 270
Softball**

Unit(s): 0.5

Class Hours: 32 Laboratory 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

**Kinesiology Intercollegiate Athletics 271
Softball - Off Season**

Unit(s): 1.0

Class Hours: 48 Laboratory 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. May be repeated. CSU/UC

**Kinesiology Intercollegiate Athletics 281
Track and Field - Off Season**

Unit(s): 1.0

Class Hours: 48 Laboratory 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. May be repeated. CSU/UC

**Kinesiology Intercollegiate Athletics 291
Volleyball - Off Season**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

This course is designed as a high-level conditioning and skills development program for volleyball players with exceptional talent. May be repeated. CSU/UC

**Kinesiology Intercollegiate Athletics 293
Sand Volleyball**

Unit(s): 3.0

Class Hours: 162 Laboratory 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. May be repeated. CSU

**KINESIOLOGY PROFESSIONAL
(KNPR)**

Kinesiology Professional 098

Topics

Unit(s): 0.5 - 5.0

Class Hours: 8 - 80 Lecture total.

Specialized courses on topics related to the special needs of students as related to exercise science. CSU/UC

**Kinesiology Professional 101 (C-ID KIN 100)
Introduction to Kinesiology**

Unit(s): 3.0

Class Hours: 48 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

**Kinesiology Professional 110
Kinesiology-Related Occupational Work
Experience**

Unit(s): 1.0 - 8.0

Class Hours: 60 - 600 Lecture total.

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. Grade: Pass/No Pass Only. Open Entry/Open Exit. CSU

**Kinesiology Professional 125
Sport Psychology**

Unit(s): 3.0

Class Hours: 48 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

**Kinesiology Professional 150
Sport and Society**

Unit(s): 3.0

Class Hours: 48 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

**Kinesiology Professional 155
Theory of Soccer**

Unit(s): 2.0

Class Hours: 32 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

**Kinesiology Professional 156
Sport Psychology Applications - Soccer**

Unit(s): 2.0

Class Hours: 32 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. Open Entry/Open Exit. CSU

**Kinesiology Professional 160
Management of Physical Education and Sport**

Unit(s): 3.0

Class Hours: 48 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

**Kinesiology Professional 165
Theory of Softball**

Unit(s): 2.0

Class Hours: 32 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. May be repeated. CSU/UC

**Kinesiology Professional 170****Sport Ethics**

Unit(s): 3.0

Class Hours: 48 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

Kinesiology Professional 175**Theory of Football**

Unit(s): 2.0

Class Hours: 32 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

Kinesiology Professional 198**Topics (Formerly: E.S. Professional 198)**

Unit(s): 0.1 - 3.0

Class Hours: 2 - 54 Lecture total.

Specialized professional studies courses on topics related to the needs of Kinesiology students. Grade: Pass/No Pass Only. CSU/UC

Kinesiology Professional 199**Sport Psychology Applications - Baseball**

Unit(s): 2.0

Class Hours: 32 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. Open Entry/Open Exit. CSU

Kinesiology Professional 200**Theory of Baseball**

Unit(s): 2.0

Class Hours: 32 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

Kinesiology Professional 201**Movement Anatomy**

Unit(s): 3.0

Class Hours: 48 Lecture total.

This course is designed as an overview of musculoskeletal anatomy presented within the context of exercise and sport. Emphasis is placed on understanding the composition, structure, and function of skeletal muscle as well as bones and joints. Course includes analysis of various movement patterns. CSU/UC

Kinesiology Professional 203**Physiology of Cardiovascular Exercise**

Unit(s): 2.0

Class Hours: 32 Lecture total.

This course is designed for students in the Fitness Specialist Certificate Program as overview of how the body responds to cardiovascular training. Emphasis is placed on understanding cardiorespiratory anatomy and physiology as well as metabolic and hormonal control of exercising muscle. Students examine training sequences, equipment selection, and safety factors including contra-indications for apparently healthy adults. CSU/UC

Kinesiology Professional 205**Techniques of Exercise Leadership**

Unit(s): 1.5

Class Hours: 16 Lecture, 32 Laboratory 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

Kinesiology Professional 207**Physiology of Resistance Training**

Unit(s): 2.0

Class Hours: 32 Lecture total.

This course is designed for students in the Fitness Specialist Certificate program as a thorough review of the proper mechanics and benefits of various types of muscular strength and endurance training. Emphasis is placed on reviewing neuromuscular anatomy and physiology, training sequences, equipment selection, and safety factors including contra-indications for apparently healthy adults. CSU/UC

Kinesiology Professional 209**Exercise for Special Populations**

Unit(s): 2.0

Class Hours: 32 Lecture total.

This course is designed as an overview of exercise programming for clients with special needs. Emphasis is placed on understanding special populations related to age, medical condition, and level of fitness. Topics include cardiovascular conditions, diabetes, physical disabilities, chronic conditions, pregnant and postpartum women, and others. CSU

Kinesiology Professional 211**Practicum in Fitness Evaluation I**

Unit(s): 0.5

Class Hours: 32 Laboratory total.

Co-Requisite: Concurrent enrollment in Kinesiology Professional 203.

This course is designed to develop proficiency in various fitness assessment techniques. Emphasis is placed on objective assessment using various treadmill tests, field tests for cardiorespiratory endurance, body composition techniques, and blood pressure measures. Students practice selecting the appropriate test, conducting the test, and evaluating results. CSU

Kinesiology Professional 213**Practicum in Fitness Evaluation II**

Unit(s): 0.5

Class Hours: 32 Laboratory total.

Co-Requisite: Concurrent enrollment in Kinesiology Professional 203.

This course is designed for students to develop proficiency in various fitness assessment techniques. Emphasis is placed on objective assessment using various muscular strength, power, speed and agility, flexibility, and balance and mobility tests. Students practice selecting the appropriate test, conducting the test, and evaluating results. CSU

Kinesiology Professional 217**Theory of Basketball**

Unit(s): 2.0

Class Hours: 32 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. Open Entry/Open Exit. CSU/UC

Kinesiology Professional 218**Sport Psychology Applications - Basketball**

Unit(s): 2.0

Class Hours: 32 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. Open Entry/Open Exit. CSU



Kinesiology Professional 275
Sport Psychology Applications-Football
 Unit(s): 2.0

Class Hours: 32 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)**

Kinesiology Sports Medicine 098
Topics

Unit(s): 0.1 - 3.0

Class Hours: 2 - 54 Lecture total.

Specialized sports medicine courses on topics related to the needs of Kinesiology students. Grade: Pass/No Pass Only.

Kinesiology Sports Medicine 101
Introduction to Sports Medicine
 Unit(s): 3.0

Class Hours: 48 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

Kinesiology Sports Medicine 198
Topics

Unit(s): 0.1 - 3.0

Class Hours: 2 - 54 Lecture total.

Specialized sports medicine courses on topics related to the needs of Kinesiology students. Grade: Pass/No Pass Only.

LAW (LAW)

Law 058
**Legal Interpreting and Translation Spanish/
 English**

Unit(s): 3.0

Class Hours: 48 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. Field trips may be required. (Same as Same as BA 058.)

Law 100
Introduction to Legal Studies
 Unit(s): 3.0

Class Hours: 48 Lecture total.

A study of the legal profession. A study of career opportunities and legal requirements to become a lawyer. A study of the ethics of the legal profession. CSU

Law 105
**The Legal Environment of Business Spanish/
 English**

Unit(s): 3.0

Class Hours: 48 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 Same as Business 105.) CSU

Law 110
Legal Terminology Spanish/English
 Unit(s): 2.0

Class Hours: 32 Lecture total.

The study of terminology used in a law office and the court system. CSU

Law 299
**Cooperative Work Experience Education
 - Occupational**

Unit(s): 1.0 - 4.0

Class Hours: 60 -300 Laboratory 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. Grade: Pass/No Pass Only. Open Entry/Open Exit. CSU

**LIBRARY & INFORMATION
 STUDIES (LIBI)**

Library & Information Studies 100
Library Research Fundamentals

Unit(s): 1.0

Class Hours: 16 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

Library & Information Studies 103
Advanced Internet Research

Unit(s): 1.0

Class Hours: 16 Lecture total.

This course focuses on library research strategies for effectively locating and evaluating information on the Internet. Core topics are designing and performing successful search strategies, evaluating online information using critical thinking skills, identifying the ethical and legal aspects of using online sources, and citing sources using a standard documentation style. CSU

LIBRARY TECHNOLOGY (LIBR)

Library Technology 053

Library Internship

Unit(s): 3.0

Class Hours: 18 Lecture, 120 Laboratory total.

Prerequisite: Library Technology 101, 110, and 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. Grade: Pass/No Pass Only.

Library Technology 054
Children's Library Services

Unit(s): 3.0

Class Hours: 48 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, storytimes, displays, and bibliographies.

Library Technology 101
Introduction to Library Technology

Unit(s): 3.0

Class Hours: 48 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

Library Technology 102
**Information Sources for Paraprofessionals:
 Tools and Techniques**

Unit(s): 3.0

Class Hours: 48 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



Library Technology 110 Technical Services

Unit(s): 3.0

Class Hours: 48 Lecture total.

Evaluation and acquisition of books and other media for libraries. Basic theories, principles, and concepts of bibliographic control, including descriptive cataloging, classification, subject analysis, and bibliographic maintenance. Emphasis placed on current cataloging rules, MARC, LC and Dewey classification, and LC Subject Headings. Original and copy cataloging using an online bibliographic cataloging system and online bibliographic utility. CSU

Library Technology 122 Public Services

Unit(s): 3.0

Class Hours: 48 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)

Management 120 Principles of Management

Unit(s): 3.0

Class Hours: 48 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

Management 121 Human Relations and Organizational Behavior

Unit(s): 3.0

Class Hours: 48 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

Management 122 Business Communications

Unit(s): 3.0

Class Hours: 48 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

Management 125 Organizational Leadership

Unit(s): 3.0

Class Hours: 48 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

Management 135 Human Resource Management

Unit(s): 3.0

Class Hours: 48 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)

Manufacturing Technology 096 Manufacturing Technology Lab Application

Unit(s): 0.5 - 4.0

Class Hours: 192 Laboratory total.

Corequisite: Manufacturing Technology 074 or Manufacturing Technology 076 or Manufacturing Technology 077 or Manufacturing Technology 084 or Manufacturing Technology 086 or Manufacturing Technology 094 or Manufacturing Technology 095.

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.

Manufacturing Technology 103 Beginning Solid Modeling

Unit(s): 3.0

Class Hours: 48 Lecture total.

Introductory course in parametric solid modeling. 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

Manufacturing Technology 104 Solidworks Intermediate Solid Modeling

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Manufacturing Technology 103 or Engineering 103 with a minimum grade of C.

Intermediate course for solid modeling. 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

Manufacturing Technology 105 Solidworks Advanced Solid Modeling

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Manufacturing Technology 104 or Engineering 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

Manufacturing Technology 106 Solidworks Drawings

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Manufacturing Technology 103 or Engineering 103 with a minimum grade of C.

Recommended Preparation: Manufacturing Technology 111 or Engineering 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



**Manufacturing Technology 107
CSWA Exam Prep**

Unit(s): 2.0

Class Hours: 32 Lecture total.

Prerequisite: Manufacturing Technology 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

**Manufacturing Technology 111
Basic Mechanical Blueprint Reading**

**Formerly: Manufacturing Technology 011,
Basic Mechanical Blueprint Reading**

Unit(s): 2.0

Class Hours: 32 Lecture total.

Reading and interpreting blueprints for manufacturing technologies. (Same as Engineering 111.) CSU

**Manufacturing Technology 114
Geometric Dimensioning and Tolerancing**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Manufacturing Technology 111 or Engineering 111 or Engineering 122 or Engineering 125, with a minimum grade of C.

Drawing interpretation utilizing geometric dimensioning and tolerancing (ANSI Y14.5) as applied in engineering, manufacturing, and inspection. (Same as Engineering 114.) CSU

**Manufacturing Technology 115
QC Inspection**

Unit(s): 3.0

Class Hours: 48 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

**Manufacturing Technology 116
QC Operations with Verisurf Software**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Manufacturing Technology 011 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

**Manufacturing Technology 120
Introduction to Medical Device Quality**

Unit(s): 2.0

Class Hours: 32 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

**Manufacturing Technology 121
Quality Control for Medical Devices**

Unit(s): 2.0

Class Hours: 32 Lecture total.

Prerequisites: Manufacturing Technology 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

**Manufacturing Technology 128
Basic Metals Technology**

**Formerly: Manufacturing Technology 028,
Basic Metals Technology**

Unit(s): 3.0

Class Hours: 48 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

**Manufacturing Technology 130A
CATIA Beginning Solid Modeling**

Unit(s): 3.0

Class Hours: 48 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

**Manufacturing Technology 130B
CATIA Intermediate Solid Modeling**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Recommended Preparation: Manufacturing Technology 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

**Manufacturing Technology 153
Technical Mathematics
Formerly: Manufacturing Technology 053,
Technical Mathematics**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Mathematics N48 with a minimum grade of C.

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

**Manufacturing Technology 158
Basic Machining Concepts and Operations
Formerly: Manufacturing Technology 058,
Basic Machining Concepts and Operations**

Unit(s): 3.0

Class Hours: 16 Lecture, 112 Laboratory 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

**Manufacturing Technology 159
Advanced Turning Concepts and Operations**

Unit(s): 3.0

Class Hours: 16 Lecture, 112 Laboratory total.

Prerequisite: Manufacturing Technology 158 or Manufacturing Technology 188 or Engineering 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

**Manufacturing Technology 168****Advanced Milling Concepts and Operations
Formerly: Manufacturing Technology 068,
Advanced Milling Concepts and Operations**

Unit(s): 3.0

Class Hours: 16 Lecture, 112 Laboratory total.

Prerequisite: Manufacturing Technology 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

Manufacturing Technology 169**Job Shop Skills**

Unit(s): 0.5 - 3.0

Class Hours: 24 - 144 Laboratory total.

Prerequisite: Manufacturing Technology 159 and 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. Open Entry/Open Exit. CSU

Manufacturing Technology 171**CNC Program Writing**

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: Manufacturing Technology 158 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.

Manufacturing Technology 173**Mastercam - 2D Geometry, 2D Toolpaths****Formerly: Manufacturing Technology 073,
Mastercam - 2D Geometry, 2D Toolpaths**

Unit(s): 3.0

Class Hours: 48 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.

Manufacturing Technology 174**CNC Milling Center Set Up and Operation**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Manufacturing Technology 158 and 171 with a minimum grade of C.

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.

Manufacturing Technology 175**Mastercam - 3D Geometry, 3D Surfaces**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Manufacturing Technology 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

Manufacturing Technology 176**CNC Turning Center Set Up and Operation**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Manufacturing Technology 158 and 171 with a minimum grade of C.

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

Manufacturing Technology 177**Mastercam - 3D Toolpath and CAM Applications**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Manufacturing Technology 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

Manufacturing Technology 178**Mastercam Lathe**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Manufacturing Technology 171 and Manufacturing Technology 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.

Manufacturing Technology 184**Advanced CNC Mill Set Up and Operation**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Manufacturing Technology 171 and 174 with a minimum grade of C.

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

Manufacturing Technology 186**Advanced CNC Lathe Programming, Setup and Operation**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Manufacturing Technology 171 and 176 with a minimum grade of C.

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

Manufacturing Technology 188**Machine Technology Survey**

Unit(s): 3.0

Class Hours: 16 Lecture, 112 Laboratory 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



Manufacturing Technology 194
CNC Horizontal Mill Setup and Operation
Formerly: Manufacturing Technology 094,
CNC Horizontal Mill Setup and Operation
 Unit(s): 3.0

Class Hours: 48 Lecture total.
 Prerequisite: Manufacturing Technology 171 and Manufacturing Technology 174 with a minimum grade of C. Concurrent enrollment in Manufacturing Technology 096.

Corequisite: Manufacturing Technology 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. Requires registration in 2 hour lab scheduled lab session for use of specialized equipment. Lab registration will be done during the first class session each semester. CSU

Manufacturing Technology 195
Mastercam 5 Axis Mill Toolpath and Application
Formerly: Manufacturing Technology 095,
Mastercam 5 Axis Mill Toolpath and Application
 Unit(s): 3.0

Class Hours: 48 Lecture total.
 Prerequisite: Manufacturing Technology 174 and Manufacturing Technology 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)

Marketing 111
Principles of Retailing
 Unit(s): 3.0

Class Hours: 48 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

Marketing 113
Principles of Marketing
 Unit(s): 3.0

Class Hours: 48 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

Marketing 120
Understanding Consumer Behavior - Getting Them to Buy, Buy, Buy
 Unit(s): 1.0

Class Hours: 16 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

Marketing 121
Negotiating - Getting to a Win-Win
 Unit(s): 1.0

Class Hours: 16 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

Marketing 122
Sales Strategies That Build Business Relationships and Increase Sales
 Unit(s): 2.0

Class Hours: 32 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

Marketing 123
Marketing and Technology - Trends and Cutting Edges
 Unit(s): 1.0

Class Hours: 16 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

Marketing 124
Cause Marketing and Public Relations - Doing Well by Doing Good
 Unit(s): 1.0

Class Hours: 16 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

Marketing 125
Advertising and Promotion - Get the Word Out and Keep Your Customers Buying
 Unit(s): 2.0

Class Hours: 32 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

Marketing 126
Distributing Product and Services - Reaching Customers Where They Shop
 Unit(s): 2.0

Class Hours: 32 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

Marketing 127
Introduction to e-Commerce
 Unit(s): 3.0

Class Hours: 48 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 and Computer Science 127.) CSU

MATHEMATICS (MATH)

Mathematics N06
Essential Mathematics
 Unit(s): 4.0

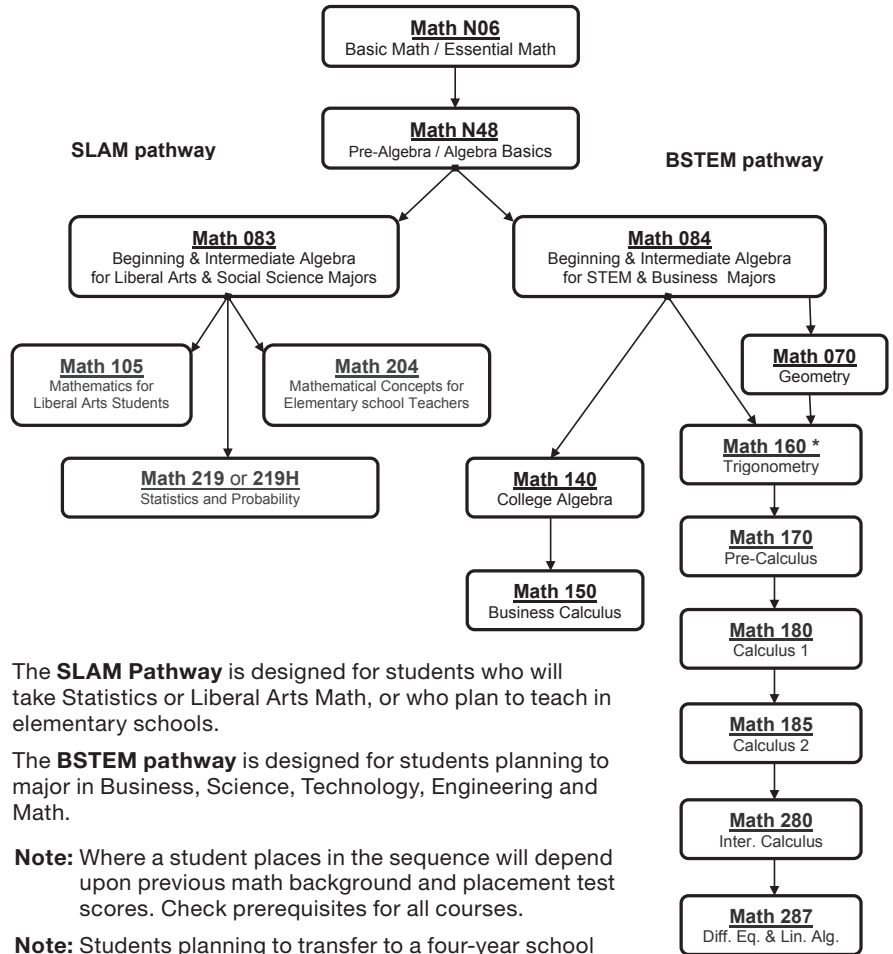
Class Hours: 64 Lecture total.
 Prerequisite: Must obtain a score of 11 or higher on the Level 1 Mathematics Placement Test.
 Reviews whole numbers, fractions, decimals, percents, geometric formulas and signed numbers. Not applicable to associate degree.

Mathematics 030
Coping With Math Anxiety
 Unit(s): 1.0

Class Hours: 16 Lecture total.
 Covers the concept of math anxiety - what causes it and how to overcome it. Includes review and practice of basic math skills.



Mathematics Course Sequences



The **SLAM Pathway** is designed for students who will take Statistics or Liberal Arts Math, or who plan to teach in elementary schools.

The **BSTEM pathway** is designed for students planning to major in Business, Science, Technology, Engineering and Math.

Note: Where a student places in the sequence will depend upon previous math background and placement test scores. Check prerequisites for all courses.

Note: Students planning to transfer to a four-year school should work carefully with a counselor and the catalog of the school of transfer. A college major should be chosen by the end of Math 083/084 to ensure enrollment in the most appropriate sequence.

*Geometry is prerequisite. (successful completion of a High School Geometry course meets this requirement.)

Mathematics N48

Pre-Algebra/Algebra Basics

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: Mathematics N05C with a minimum grade of P or Mathematics N06 with a minimum grade of C or placement into Mathematics N48 on the Mathematics Level 1 Exam and a course equivalent to Mathematics N05 or Mathematics N06.

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.

Mathematics 070

Geometry

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Mathematics 060 or Mathematics 084 with a minimum grade of C or placement into Mathematics 070 on the Mathematics Level 2 Placement Exam and a course equivalent to Mathematics 060.

Basic Euclidean geometry. Includes concepts of lines, planes, triangles, congruence, proofs, inequalities, parallel lines, similarity, areas, and volumes.

Mathematics 078

Math for Engineers, I

Unit(s): 7.0

Class Hours: 144 Lecture total.

Prerequisite: Mathematics 060 or 061 with a grade of C or better; or placement into Math 080 or 081 on the mathematics level 2 placement exam and a course equivalent to Mathematics 060 or 061.

Basic Euclidean geometry combined with a second course in algebra. Topics from Basic Euclidean Geometry include: concepts of lines, planes, triangles, congruence, proofs, inequalities, parallel lines, similarity, areas, and volumes. Topics from Algebra include: systems of equations, inequalities, graphs and functions, radicals, quadratic polynomials, rational expressions, exponential and logarithmic functions, and problem solving.

Mathematics 083

Beginning and Intermediate Algebra for Liberal Arts and Social Science

Unit(s): 6.0

Class Hours: 96 Lecture total.

Prerequisite: Mathematics N48 with a minimum grade of C; or a sufficient score on the Mathematics Level 2 Placement Exam and a course equivalent to Mathematics N48 or 060.

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.

Mathematics 084

Beginning and Intermediate Algebra

Unit(s): 6.0

Class Hours: 96 Lecture total.

Prerequisite: Mathematics N48 with a minimum grade of C; or a sufficient score on the Mathematics Level 2 Placement Exam and a course equivalent to Mathematics N48 or Mathematics 060.

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.

**Mathematics 105****Mathematics for Liberal Arts Students**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Mathematics 080 or Mathematics 081 or Mathematics 083 with a minimum grade of C or equivalent skills as measured by the Math Level 3 Exam and a course equivalent to Mathematics 080 or Mathematics 081.

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 theory, geometry, logic, mathematical modeling, and the history of mathematics. CSU/UC

Mathematics 140**College Algebra**

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: Mathematics 080 or Mathematics 081 or Mathematics 084 with a minimum grade of C or better or equivalent skills as measured by the Mathematics Level 3 Exam and a course equivalent to Mathematics 080 or Mathematics 081.

Survey of advanced topics in algebra: equations, inequalities and functions involving polynomials, rationals, exponentials, and logarithms with applications and graphing; sequences and series. CSU/UC

Mathematics 145 (C-ID MATH 130)**Finite Mathematics**

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: Mathematics 080 or Mathematics 081 or Mathematics 084 with a minimum grade of C or or equivalent skills as measured by the Math Level 3 Exam and a course equivalent to Mathematics 080, or Mathematics 081, or Mathematics 084.

Linear systems and matrix algebra, linear programming and the simplex method, mathematics of finance, 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

Mathematics 150 (C-ID MATH 140)**Calculus for Biological, Management and Social Sciences**

Unit(s): 4.0

Class Hours: 80 Lecture total.

Prerequisite: Mathematics 140 or Mathematics 145 with a minimum grade of C; or placement into Mathematics 150 on the Mathematics Level 3 Placement Exam and a course equivalent to Mathematics 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

Mathematics 160**Trigonometry**

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: Mathematics 070 and Mathematics 080 or Mathematics 081 or Mathematics 084 with a minimum grade of C; or placement in Mathematics 160 with the Mathematics Level 3 Exam and courses equivalent to Mathematics 070 and Mathematics 080 or Mathematics 081 or Mathematics 084.

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

Mathematics 165**Introduction to Math Tutoring**

Unit(s): 1.0

Class Hours: 16 Lecture, 16 Laboratory total.

Role and responsibility of the math tutor. Includes training in individualized and small group instruction, communication skills, cultural awareness, learning styles, problem solving techniques, new technologies, and an overview of the math curriculum. (Students will be required to spend 16 hours in a designated tutoring center as part of the arranged hours.) CSU

Mathematics 170 (C-ID MATH 155)**Pre-Calculus Mathematics**

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: Mathematics 160 with a minimum grade of C or equivalent skills as measured by the Mathematics 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

Mathematics 180 (C-ID MATH 210) (C-ID MATH 900S = MATH 180 or 180H + 185)**Analytic Geometry and Calculus I**

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: Mathematics 170 with a minimum grade of C; or equivalent skills as measured by the Mathematics Level 4 Exam and a course equivalent to Mathematics 170.

Limits and continuity, derivatives and integrals of algebraic, trigonometric, and other transcendental functions. Applications including extrema tests, related rates, and areas. CSU/UC

Mathematics 180H (C-ID MATH 210) (C-ID MATH 900S = MATH 180 or 180H + 185)**Honors Single Variable Calculus I****Formerly: Mathematics 180H, Honors Analytic Geometry and Calculus**

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above 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

Mathematics 185 (C-ID MATH 210) (C-ID MATH 900S = MATH 180 or 180H + 185)**Single Variable Calculus II**

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: Mathematics 180/180H 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

Mathematics 204**Mathematical Concepts for Elementary School Teachers**

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: Mathematics 080 or Mathematics 081 or Mathematics 083 with a minimum grade of C or equivalent skills as measured by the Math Level 3 Exam and a course equivalent to Mathematics 080 or 081 or 083.

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



**Mathematics 219 (C-ID SOCI 125)
(C-ID MATH 110)**

Statistics and Probability

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: Mathematics 080 or Mathematics 081 or Mathematics 083 with a minimum grade of C or placement into Mathematics 219 on the Mathematics Level 3 placement Exam and a course equivalent to Mathematics 080, Mathematics 081, or Mathematics 083.

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

**Mathematics 219H (C-ID SOCI 125)
(C-ID MATH 110)**

Honors Statistics and Probability

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: Mathematics 080 or Mathematics 081 or Mathematics 083 with a minimum grade of C or placement into Mathematics 219 on the Mathematics Level 3 placement Exam and a course equivalent to Mathematics 080, Mathematics 081, or Mathematics 083; and a high school or college GPA of 3.0 or higher.

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

Mathematics 280 (C-ID MATH 230)

Intermediate Calculus

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: Mathematics 185, second semester calculus, 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

Mathematics 287 (C-ID MATH 910S)

Introduction to Linear Algebra and Differential Equations

Unit(s): 5.0

Class Hours: 80 Lecture total.

Prerequisite: Mathematics 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

Mathematics 319

Quantitative Research Methods for Healthcare Professionals

Unit(s): 4.0

Class Hours: 64 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.

MEDICAL ASSISTANT (MA)

Medical Assistant 001

Cooperative Work Experience Education - Occupational

Unit(s): 1.0 - 16.0

Class Hours: 60 - 1200 Lecture total.

Prerequisite: Medical Assistant 051A and Medical Assistant 055 with a minimum grade of C.

Supervised paid or volunteer experience in student's major including new or expanded responsibilities. Units are earned based on the number of hours worked per semester: 60 hours of nonpaid work hours = 1 unit; 75 hours of paid work hours = 1 unit. Maximum units per semester is 6. May be repeated. Grade: Pass/No Pass Only.

Medical Assistant 020

Bloodborne and Airborne Pathogen Standards

Unit(s): 0.5

Class Hours: 8 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.

Medical Assistant 051A

Beginning Medical Terminology

Unit(s): 3.0

Class Hours: 48 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.

Medical Assistant 051B

Advanced Medical Terminology

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Medical Assistant 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.

Medical Assistant 053

Medical Assistant - Administrative Front Office

Unit(s): 3.0

Class Hours: 48 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.

Medical Assistant 054

Medical Insurance and Billing Forms

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Medical Assistant 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-9-CM.

Medical Assistant 055

Medical Assistant - Clinical Back Office

Unit(s): 3.0

Class Hours: 48 Lecture total.

Medical back office with emphasis on asepsis, sterilization, gloving and ungloving, assisting physician with exams and minor office surgical procedures, vital signs, wound care, dressings, bandaging, specimen collections, medications, and injection techniques.

Medical Assistant 056

Computer Applications for the Medical Office

Unit(s): 3.0

Class Hours: 48 Lecture total.

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, and generating reports and electronic data interchange.

**Medical Assistant 098****Topics**

Unit(s): 0.5 - 3.0

Class Hours: 8 - 48 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)**Music 009A****Music Laboratory**

Unit(s): 0.3

Class Hours: 16 Laboratory 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. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Music 009B**Music Laboratory II**

Unit(s): 0.3

Class Hours: 16 Laboratory total.

Prerequisite: Music 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. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Music 009C**Music Laboratory III**

Unit(s): 0.3

Class Hours: 16 Laboratory total.

Prerequisite: Music 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. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Music 009D**Music Laboratory IV**

Unit(s): 0.3

Class Hours: 16 Laboratory total.

Prerequisite: Music 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. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Music 101 (C-ID MUS 100)**Music Appreciation**

Unit(s): 3.0

Class Hours: 48 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

Music 101H (C-ID MUS 100)**Honors Music Appreciation**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

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

Music 102**World Music**

Unit(s): 3.0

Class Hours: 48 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

Music 102H**Honors World Music**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: High School or college GPA of 3.0 or above.

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

Music 103**Jazz in America**

Unit(s): 3.0

Class Hours: 48 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

Music 104**Rock Music History and Appreciation**

Unit(s): 3.0

Class Hours: 48 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

Music 105**Film Music Appreciation**

Unit(s): 3.0

Class Hours: 48 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

Music 109**Reading and Making Music**

Unit(s): 2.0

Class Hours: 32 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

Music 110 (C-ID MUS 110)**Music Fundamentals and Culture**

Unit(s): 3.0

Class Hours: 48 Lecture total.

An introduction to the notation and primary elements of tonal music throughout history from Western and 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



**Music 111 (C-ID MUS 120)(C-ID MUS 125)
Basic Music Theory and Musicianship I**

Unit(s): 4.0

Class Hours: 64 Lecture, 16 Laboratory 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

**Music 112 (C-ID MUS 130)(C-ID MUS 135)
Music Theory and Musicianship II**

Unit(s): 4.0

Class Hours: 64 Lecture, 16 Laboratory total.

Prerequisite: Music 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

Music 113A

Basic Musicianship Skills

Unit(s): 1.0

Class Hours: 16 Lecture, 16 Laboratory 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 CD's. Basic knowledge of scales and intervals recommended. A combination of Music 113A, 113B, 114A, and 114B may be taken a maximum of four enrollments. CSU/UC

Music 113B

Musicianship Skills

Unit(s): 1.0

Class Hours: 16 Lecture, 16 Laboratory total.

Prerequisite: Music 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 CD's. Basic knowledge of scales and intervals recommended. Grade: Pass/No Pass Only. A combination of Music 113A, 113B, 114A, and 114B may be taken a maximum of four enrollments. CSU/UC

**Music 114A (C-ID MUS 145)
Musicianship**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Music 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. CSU/UC

**Music 114B (C-ID MUS 155)
Musicianship**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Music 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. CSU/UC

Music 115A (C-ID MUS 160)

Applied Music (Private Instruction)

Unit(s): 1.0

Class Hours: 16 Lecture, 96 Laboratory 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. Open Entry/Open Exit. A combination of Music 115A, 115B, 115C, 115D, and 215A may be taken a maximum of four enrollments. CSU/UC

Music 115B (C-ID MUS 160)

Applied Music (Private Instruction)

Unit(s): 1.0

Class Hours: 16 Lecture, 96 Laboratory total.

Prerequisite: Audition and concurrent enrollment in either a music ensemble or music theory course.

Weekly lesson in voice, piano, band/orchestra instrument, or classical guitar, covering more advanced repertoire than Music 115A. Five hours on-campus practice per week and attendance at weekly recital required. 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. Open Entry/Open Exit. A combination of Music 115A, 115B, 115C, 115D, and 215A may be taken a maximum of four enrollments. CSU/UC

Music 115C (C-ID MUS 160)

Applied Music (Private Instruction)

Unit(s): 1.0

Class Hours: 16 Lecture, 96 Laboratory 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. 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. Open Entry/Open Exit. A combination of Music 115A, 115B, 115C, and 215A may be taken a maximum of four enrollments. CSU/UC

Music 115D (C-ID MUS 160)

Applied Music (Private Instruction)

Unit(s): 1.0

Class Hours: 16 Lecture, 96 Laboratory 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. 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. Open Entry/Open Exit. A combination of Music 115A, 115B, 115C, 115D, and 215A may be taken a maximum of four enrollments. CSU/UC

Music 121

Beginning Voice

Unit(s): 1.0

Class Hours: 16 Lecture, 16 Laboratory 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 Music 121, 122, 123, and 124 may be taken a maximum of four enrollments. CSU/UC



Music 122
Intermediate Voice

Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total.
Prerequisite: Music 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 Music 121, 122, 123, and 124 may be taken a maximum of four enrollments. CSU/UC

Music 123
Advanced Voice

Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total.
Prerequisite: Music 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 Music 121, 122, 123, and 124 may be taken a maximum of four enrollments. CSU/UC

Music 124
Advanced Vocal Production and Repertoire

Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total.
Prerequisite: Music 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 vocal 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 Music 121, 122, 123, and 124 may be taken a maximum of four enrollments. CSU/UC

Music 135 (C-ID MUS 180)
Concert Chorale

Unit(s): 1.0
Class Hours: 48 Laboratory total.

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

Music 136
Collegiate Choir

Unit(s): 1.0
Class Hours: 48 Laboratory 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. Grade: Pass/No Pass Only. CSU/UC

Music 137 (C-ID MUS 180)
Chamber Choir

Unit(s): 1.0
Class Hours: 64 Laboratory 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

Music 140
Instrumental Methods for Winds and Percussion

Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory 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

Music 141
Instrumental Ensembles

Unit(s): 1.0
Class Hours: 48 Laboratory 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

Music 142
Creating Music on the Digital Audio Workstation

Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory 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

Music 143
Intermediate Techniques on the Digital Audio Workstation

Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total.
Prerequisite: Music 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, auxilliary tracks, MIDI effects, and use of the software sampler. Students learn practical applications and electronic composition through creation of musical projects. CSU

Music 144
Projects in Electronic Music

Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total.
Prerequisite: Music 143 or Music 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

Music 145
Jazz Improvisation and Performance Workshop

Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory 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

Music 146
Digital Recording Studio Techniques I

Unit(s): 2.0
Class Hours: 24 Lecture, 24 Laboratory total.

Introductory class in computer-based hard disk recording. Emphasis on digital sound manipulation, editing, mixdown, and microphone techniques. CSU

Music 147
Digital Recording Studio Sound Design

Unit(s): 2.0
Class Hours: 32 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

**Music 148****Digital Music Synchronization to Multimedia**

Unit(s): 2.0

Class Hours: 24 Lecture, 24 Laboratory total.

Techniques of synchronizing MIDI and digital audio tracks to video. Compositional elements of scoring to picture as well as technical elements of using SMPTE time code are covered. Experience with MIDI sequencing and/or digital recording is necessary. CSU

Music 149**The Business of Music**

Unit(s): 2.0

Class Hours: 32 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

Music 152**Beginning Audio Production**

Unit(s): 3.0

Class Hours: 48 Lecture, 16 Laboratory 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 TV/Video Communications 152.) CSU/UC

Music 153**Introduction to Game Audio**

Unit(s): 2.0

Class Hours: 24 Lecture, 24 Laboratory 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

Music 161**Class Piano I**

Unit(s): 1.0

Class Hours: 16 Lecture, 16 Laboratory 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 Music 161, 162, 163, 164A, and 164B may be taken a maximum of four enrollments. CSU/UC

Music 162**Class Piano II**

Unit(s): 1.0

Class Hours: 16 Lecture, 16 Laboratory total.

Prerequisite: Music 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 sightreading. Daily practice required. Practice pianos available on campus. Required for music majors whose principal instrument is not piano. A combination of Music 161, 162, 163, 164A, and 164B may be taken a maximum of four enrollments. CSU/UC

Music 163**Class Piano III**

Unit(s): 1.0

Class Hours: 16 Lecture, 16 Laboratory total.

Prerequisite: Music 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 Music 161, 162, 163, 164A, and 164B may be taken a maximum of four enrollments. CSU/UC

Music 164A**Intermediate Piano Repertoire I**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory total.

Prerequisite: Music 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 Music 161, 162, 163, 164A, and 164B may be taken a maximum of four enrollments. CSU/UC

Music 164B**Intermediate Piano Repertoire II**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory total.

Prerequisite: Music 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 Music 161, 162, 163, 164A, and 164B may be taken a maximum of four enrollments. CSU/UC

Music 168**Stylistic Interpretation of Piano Repertoire**

Unit(s): 1.0

Class Hours: 16 Lecture, 16 Laboratory total.

Prerequisite: Music 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. CSU/UC

Music 169**Harmonization At the Keyboard**

Unit(s): 1.0

Class Hours: 16 Lecture, 16 Laboratory total.

Recommended Preparation: Music 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. CSU/UC

Music 171 (C-ID MUS 180)**Concert Band**

Unit(s): 1.0

Class Hours: 48 Laboratory 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

Music 173**Beginning Rhythms in Percussion and Drums**

Unit(s): 1.0

Class Hours: 16 Lecture, 16 Laboratory 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 coordinates in various styles. CSU/UC

Music 175 (C-ID MUS 180)**Jazz Ensemble**

Unit(s): 1.0

Class Hours: 48 Laboratory 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

**Music 176****Jazz Band**

Unit(s): 1.0

Class Hours: 48 Laboratory 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

Music 178**Mariachi**

Unit(s): 1.0

Class Hours: 48 Laboratory 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

Music 180A**String Methods**

Unit(s): 1.0

Class Hours: 16 Lecture, 16 Laboratory 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 Music 180A and 180B may be taken a maximum of four enrollments. CSU/UC

Music 180B**Intermediate String Methods**

Unit(s): 1.0

Class Hours: 16 Lecture, 16 Laboratory total.

Prerequisite: Music 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 Music 180A and 180B may be taken a maximum of four enrollments. CSU/UC

Music 181 (C-ID MUS 180)**Chamber Orchestra**

Unit(s): 1.0

Class Hours: 48 Laboratory 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. May be repeated. CSU/UC

Music 185**Beginning Classical Guitar**

Unit(s): 1.0

Class Hours: 16 Lecture, 16 Laboratory total.

Basic instruction in guitar technique and music nomenclature as related to performance of entry level solo and ensemble repertoire. Student must furnish nylon string guitar. A combination of Music 185, 186, 187, and 188 may be taken a maximum of four enrollments. CSU/UC

Music 186**Intermediate Classical Guitar**

Unit(s): 1.0

Class Hours: 16 Lecture, 16 Laboratory total.

Prerequisite: Music 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 Music 185, 186, 187, and 188 may be taken a maximum of four enrollments. CSU/UC

Music 187**Advanced Classical Guitar**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory total.

Prerequisite: Music 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 Music 185, 186, 187, and 188 may be taken a maximum of four enrollments. CSU/UC

Music 188**Advanced Classical Guitar Technique and Repertoire**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory total.

Prerequisite: Music 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 Music 185, 186, 187, and 188 may be taken a maximum of four enrollments. CSU/UC

Music 189**Guitar Ensemble**

Unit(s): 1.0

Class Hours: 48 Laboratory 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

Music 190**Introduction to Protools**

Unit(s): 1.5

Class Hours: 16 Lecture, 24 Laboratory 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 Television/Video Communications 190.) CSU

Music 198**Topics**

Unit(s): 0.5

Class Hours: 8 Lecture, 8 Laboratory total.

Topics of special interest offered to meet the interests and needs of students of music. CSU/UC

Music 211**Music History and Literature**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Music 112 with a minimum grade of C.

Survey of important European trends in musical style and form from the Middle Ages to the 20th century. Required for music majors. Open to non-music majors. CSU/UC

Music 213 (C-ID MUS 140)**Theory 3**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Music 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

Music 214 (C-ID MUS 150)**Theory 4**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Music 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

**Music 215A****Applied Music (Advanced Private Instruction)**

Unit(s): 1.5

Class Hours: 92 Laboratory total.

Prerequisite: Music 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. CSU/UC

Music 216**Advanced Harmony and Composition I**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Music 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

Music 217**Advanced Harmony and Composition II**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Music 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

Music 218**Music Notation Using Finale Software**

Unit(s): 1.0

Class Hours: 16 Lecture, 16 Laboratory 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

Music 241**Chamber Music Ensemble**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Audition.

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

Music 268**Intermediate Keyboard Repertoire**

Unit(s): 1.0

Class Hours: 16 Lecture, 16 Laboratory total.

Prerequisite: Music 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 268 may be taken a maximum of four enrollments. CSU/UC

Music 269**Intermediate Harmonization at the Keyboard**

Unit(s): 1.0

Class Hours: 16 Lecture, 16 Laboratory total.

Prerequisite: Music 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. CSU

Music 271 (C-ID MUS 180)**Symphonic Band**

Unit(s): 1.0

Class Hours: 48 Laboratory 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. May be repeated. CSU/UC

NURSING-CONTINUING EDUCATION (NCE)**Nursing-Continuing Education 145****Advanced Cardiac Life Support**

Unit(s): 1.5

Class Hours: 24 Lecture total.

Prerequisite: Nursing-Registered 201 and 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

NURSING-REGISTERED (NRN)**Nursing-Registered 098****Topics**

Unit(s): 0.5 - 3.0

Class Hours: 8 - 54 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.

Nursing-Registered 101**Nursing Process: Non-Critical Adults**

Unit(s): 4.5

Class Hours: 72 Lecture total.

Prerequisite: Biology 239, Biology 249, Biology 139 or 229, and English 101/101H with a minimum grade of C. Concurrent enrollment in Nursing-Registered 101L.

Emphasizes nursing process in the care of adult and geriatric patients of diverse cultures with non-critical biological and psychosocial system needs deficits. CSU

Nursing-Registered 101L**Nursing Actions: Non-Critical Adults**

Unit(s): 5.0

Class Hours: 240 Laboratory total.

Prerequisite: Biology 239, Biology 249, Biology 139 or 229, and English 101/101H with a minimum grade of C. Concurrent enrollment in Nursing-Registered 101.

Clinical experience emphasizing nursing process for adults and geriatric patients of diverse cultures with non-critical biological system needs. Focuses on psychomotor skills and application. Applies concepts to multicultural groups in acute and other community based settings. Grade: Pass/No Pass Only. CSU

Nursing-Registered 102**Nursing Process: Women, Parents, and Children**

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: Nursing-Registered 101, 101L, 103, 112 with a minimum grade of C. Concurrent enrollment in Nursing-Registered 102L.

Emphasizes nursing process of women, parents, and children of diverse cultures with biological and psychosocial system needs. Examines community-based nursing concepts. Focuses on growth and development across the life phases with emphasis on family centered care. Principles of I.V. therapy will also be emphasized. CSU



Nursing-Registered 102L
Nursing Actions: Women, Parents and Children

Unit(s): 4.6
 Class Hours: 220 Laboratory total.
 Prerequisite: Nursing-Registered 101, 101L, 103, 112 with a minimum grade of C. Concurrent enrollment in Nursing-Registered 102.

Clinical laboratory experience emphasizing the nursing process in the care of women, parents, and children of diverse cultures with biological and psychosocial system need deficits. Application of the nursing process in acute care and community-based settings. Focus is on the application of the biological and psychosocial theoretical concepts in clinical practice. Grade: Pass/No Pass Only. CSU

Nursing-Registered 103
Pharmacological Concepts of Nursing

Unit(s): 3.0
 Class Hours: 48 Lecture total.
 Prerequisite: English 101 or English 101H, Biology 239, Biology 249, Biology 139 or 229 with a minimum grade of C.

Introduction to pharmacology, dosage calculations, drug classifications, and application of nursing process to drug administration. Completion required prior to entry into Nursing-Registered 102/102L. CSU

Nursing-Registered 105
Cooperative Work Experience-Occupational Education-Occupational

Unit(s): 1.0 - 4.0
 Class Hours: 60 - 300 Lecture total.
 Co-Requisite: Concurrent enrollment in Nursing-Registered 201L or Nursing-Registered 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. Grade: Pass/No Pass Only. Open Entry/Open Exit. CSU

Nursing-Registered 106A
Health Science Skills Laboratory - First Semester

Unit(s): 0.5
 Class Hours: 24 Laboratory total.
 Prerequisite: Enrollment in the Registered Nursing Program, any Nursing-Continuous Education courses, or Nursing-Registered 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 Nursing-Registered-161, Nursing-Registered 161L, Nursing-Registered 163 and Nursing-Registered-163L. Grade: Pass/No Pass Only. Open Entry/Open Exit. CSU

Nursing-Registered 106B
Health Sciences Skills Laboratory - Second Semester

Unit(s): 0.5
 Class Hours: 24 Laboratory total.
 Prerequisite: Enrollment in the Registered Nursing Program, any Nursing-Continuous Education courses, or Nursing-Registered 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 Nursing-Registered 164, Nursing-Registered 164L, Nursing-Registered 165, and Nursing-Registered 165L. Grade: Pass/No Pass Only. Open Entry/Open Exit. CSU

Nursing-Registered 106C
Health Sciences Skills Laboratory - First Year Refresher

Unit(s): 0.5
 Class Hours: 24 Laboratory total.
 Prerequisite: Enrollment in the Registered Nursing Program, EMT, any Nursing-Continuous Education courses, or Nursing-Registered 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 psychomotor skills content addressed in courses Nursing-Registered 161, Nursing-Registered 161L, Nursing-Registered 163, Nursing-Registered 163L, Nursing-Registered 164, Nursing-Registered 164L, EMT 101 or EMT 105. Grade: Pass/No Pass Only. Open Entry/Open Exit. CSU

Nursing-Registered 112
Nursing Concepts

Unit(s): 1.5
 Class Hours: 24 Lecture total.
 Prerequisite: Biology 239 and Biology 249 and Biology 139 or Biology 229 and English 101 or English 101H with a minimum grade of C.

Emphasizes development of the registered nurse including role, communication, nursing process, legal and ethical concepts, test taking strategies, the Santa Ana College Conceptual Framework for Nursing, nutrition, and medical terminology. Completion required prior to entry into Nursing-Registered 102/102L. CSU

Nursing-Registered 160
Introduction to Pharmacology

Unit(s): 1.0
 Class Hours: 16 Lecture total.
 Prerequisite: Biology 239 and Biology 249 and Biology 139 or Biology 229 and English 101 or English 101H with a minimum grade of C. Concurrent enrollment in Nursing-Registered 161 and Nursing-Registered 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

Nursing-Registered 161
Principles of Nursing Practice

Unit(s): 2.0
 Class Hours: 32 Lecture total.
 Prerequisite: Biology 239 and Biology 249 and Biology 139 or Biology 229 and English 101 or English 101H with a minimum grade of C. Concurrent enrollment in Nursing-Registered 160 and Nursing-Registered 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



Nursing-Registered 161L
Principles of Nursing Practice Lab

Unit(s): 2.5

Class Hours: 120 Laboratory total.

Prerequisite: Biology 239 and Biology 249 and Biology 139 or Biology 229 and English 101 or English 101H with a minimum grade of C. Concurrent enrollment in Nursing-Registered 160 and Nursing-Registered 161.

This clinical course applies the concepts of Nursing-Registered 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. Grade: Pass/No Pass Only. CSU

Nursing-Registered 162
Pharmacological Concepts

Unit(s): 1.5

Class Hours: 24 Lecture total.

Prerequisite: Nursing-Registered 160 and Nursing-Registered 161 with a minimum grade of C, and Nursing-Registered 161L with a minimum grade of P. Concurrent enrollment in Nursing-Registered 163 and Nursing-Registered 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

Nursing-Registered 163
Simple Concepts

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Nursing-Registered 160 and Nursing-Registered 161 with a minimum grade of C, and Nursing-Registered 161L with a minimum grade of P. Concurrent enrollment in Nursing-Registered 162 and Nursing-Registered 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

Nursing-Registered 163L
Simple Concepts Lab

Unit(s): 2.5

Class Hours: 120 Laboratory total.

Prerequisite: Nursing-Registered 160 and Nursing-Registered 161 with a minimum grade of C, and Nursing-Registered 161L with a minimum grade of P. Concurrent enrollment in Nursing-Registered 162 and Nursing-Registered 163.

This clinical course applies the concepts of Nursing-Registered 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. Grade: Pass/No Pass Only. CSU

Nursing-Registered 164
Family Health Concepts

Unit(s): 2.0

Class Hours: 32 Lecture total.

Prerequisite: Nursing-Registered 162 and Nursing-Registered 163 with a minimum grade of C, and Nursing-Registered 163L with a minimum grade of P. Concurrent enrollment in Nursing-Registered 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

Nursing-Registered 164L
Family Health Concepts Lab

Unit(s): 2.0

Class Hours: 96 Laboratory total.

Prerequisite: Nursing-Registered 162 and Nursing-Registered 163 with a minimum grade of C, and Nursing-Registered 163L with a minimum grade of P. Concurrent enrollment in Nursing-Registered 164.

This clinical course applies the concepts of Nursing-Registered 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. Grade: Pass/No Pass Only. CSU



**Nursing-Registered 165
Health Illness Concepts**

Unit(s): 2.5

Class Hours: 40 Lecture total.

Prerequisite: Nursing-Registered 164 with a minimum grade of C, and Nursing-Registered 164L with a minimum grade of P. Concurrent enrollment in Nursing-Registered 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

**Nursing-Registered 165L
Health Illness Concepts Lab**

Unit(s): 2.5

Class Hours: 120 Laboratory total.

Prerequisite: Nursing-Registered 164 with a minimum grade of C, and Nursing-Registered 164L with a minimum grade of P. Concurrent enrollment in Nursing-Registered 165.

This clinical course applies the concepts of Nursing-Registered 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. Grade: Pass/No Pass Only. CSU

**Nursing-Registered 198
Topics**

Unit(s): 0.5 - 3.0

Class Hours: 8 - 54 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. Open Entry/Open Exit. CSU

**Nursing-Registered 200
Role Transition**

Unit(s): 2.0

Class Hours: 32 Lecture total.

Prerequisite: 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. Grade: Pass/No Pass Only. CSU

**Nursing-Registered 201
Nursing Process: Critical Biological and Psychosocial System Needs I**

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: Nursing-Registered 102 and 102L with a minimum grade of C. Concurrent enrollment in Nursing-Registered 201L.

Emphasizes nursing process of adult and geriatric patients of diverse cultures with critical biological and psychosocial system needs deficits. CSU

**Nursing-Registered 201L
Nurse Actions: Critical Biological and Psychosocial System Needs I**

Unit(s): 5.0

Class Hours: 240 Laboratory total.

Prerequisite: Nursing-Registered 102, 102L with a minimum grade of C. Concurrent enrollment in Nursing-Registered 201.

Application of the nursing process in caring for adults and geriatric patients of diverse cultures with critical biological and psychosocial system needs in institutional and community settings. Application of psychomotor skills and analysis of concepts. Grade: Pass/No Pass Only. CSU

**Nursing-Registered 202
Nursing Process: Critical Biological And Psychosocial System Needs II**

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: Nursing-Registered 201 and 201L with a minimum grade of C; Concurrent enrollment in Nursing-Registered 202L.

Emphasizes nursing process for adult and geriatric patients of diverse cultures with critical psychosocial and biological system needs with a focus on R.N. role in leadership, decision-making and patient teaching. CSU

**Nursing-Registered 202L
Nursing Action: Critical Biological and Psychosocial System Needs II**

Unit(s): 5.4

Class Hours: 256 Laboratory total.

Prerequisite: Nursing-Registered 201 and 201L with a minimum grade of C; Concurrent enrollment in Nursing-Registered 202.

Application of leadership theory and nursing process to adult and geriatric patients of diverse cultures with critical psychosocial and biological system needs deficits. Application of cognitive content and practice of psychomotor skills. Preceptorship time and location to be arranged. Grade: Pass/No Pass Only. CSU

**Nursing-Registered 206A
Health Sciences Skills Laboratory - Third Semester**

Unit(s): 0.5

Class Hours: 24 Laboratory total.

Prerequisite: Enrollment in the Registered Nursing Program, any Nursing-Continuous Education courses, or Nursing-Registered 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 Nursing-Registered 261, Nursing-Registered 261L, Nursing-Registered 262, and Nursing-Registered 262L. Grade: Pass/No Pass Only. Open Entry/Open Exit. CSU

**Nursing-Registered 206B
Health Sciences Skills Laboratory - Fourth Semester**

Unit(s): 0.5

Class Hours: 24 Laboratory total.

Prerequisite: Enrollment in the Registered Nursing Program, any Nursing-Continuous Education courses, or Nursing-Registered 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 Nursing-Registered 263, Nursing-Registered 263L and Nursing-Registered 264L. Grade: Pass/No Pass Only. Open Entry/Open Exit. CSU



Nursing-Registered 206C
Health Sciences Skills Laboratory - Second Year Transition

Unit(s): 0.5

Class Hours: 24 Laboratory total.

Prerequisite: Enrollment in the Registered Nursing Program, any Nursing-Continuous Education courses, or Nursing-Registered re-entry.

Supervised use with supplemental learning assistance of skills lab to assist the Nursing-Registered 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 Nursing-Registered 261, Nursing-Registered 261L, Nursing-Registered 262, Nursing-Registered 262L, Nursing-Registered 263, Nursing-Registered 263L, and Nursing-Registered 264L, EMT 101, or EMT 105. Grade: Pass/No Pass Only. Open Entry/Open Exit. CSU

Nursing-Registered 261
Mental Health Concepts

Unit(s): 1.5

Class Hours: 24 Lecture total.

Prerequisite: Nursing-Registered 165 with a minimum grade of C, and Nursing-Registered 165L with a minimum grade of P. Concurrent enrollment in Nursing-Registered 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 & coping, mood & affect, cognition, addictive behavior, 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

Nursing-Registered 261L
Mental Health Concepts Lab

Unit(s): 1.5

Class Hours: 72 Laboratory total.

Prerequisite: Nursing-Registered 165 with a minimum grade of C, and Nursing-Registered 165L with a minimum grade of P. Concurrent enrollment in Nursing-Registered 261.

This clinical course applies the concepts of Nursing-Registered 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 & coping, mood & affect, cognition, addictive behavior, safety & 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. Grade: Pass/No Pass Only. CSU

Nursing-Registered 262
Acute Concepts

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Nursing-Registered 261 with a minimum grade of C, and Nursing-Registered 261L with a minimum grade of P. Concurrent enrollment in Nursing-Registered 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: metabolism, central nervous system regulation, cellular regulation, oxygenation, perfusion, inflammation, infection, mobility, comfort, safety & 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

Nursing-Registered 262L
Acute Concepts Lab

Unit(s): 3.0

Class Hours: 144 Laboratory total.

Prerequisite: Nursing-Registered 261 with a minimum grade of C, and Nursing-Registered 261L with a minimum grade of P. Concurrent enrollment in Nursing-Registered 262.

This clinical course applies the concepts of Nursing-Registered 262 within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: metabolism, central nervous system regulation, cellular regulation, oxygenation, perfusion, inflammation, infection, mobility, comfort, safety & 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. Grade: Pass/No Pass Only. CSU

Nursing-Registered 263
Complex Concepts

Unit(s): 3.5

Class Hours: 56 Lecture total.

Prerequisite: Nursing-Registered 262 with a minimum grade of C, and Nursing-Registered 262L with a minimum grade of P. Concurrent enrollment in Nursing-Registered 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 & 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



Nursing-Registered 263L Complex Concepts Lab

Unit(s): 2.5

Class Hours: 120 Laboratory total.

Prerequisite: Nursing-Registered 262 with a minimum grade of C, and Nursing-Registered 262L with a minimum grade of P. Concurrent enrollment in Nursing-Registered 263.

This clinical course applies the concepts of Nursing-Registered 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 & 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. Grade: Pass/No Pass Only. CSU

Nursing-Registered 264L Preceptorship Lab

Unit(s): 2.5

Class Hours: 120 Laboratory total.

Prerequisite: Nursing-Registered 263 with a minimum grade of C, and Nursing-Registered 263L with a minimum grade of P.

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. Grade: Pass/No Pass Only. CSU

NUTRITION AND FOOD (NUTR)

Nutrition and Food 101

The Food System and Career Opportunities

Unit(s): 1.5

Class Hours: 24 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

Nutrition and Food 110

Food Sanitation and Safety

Unit(s): 3.0

Class Hours: 48 Lecture total.

Basic principles of sanitation and safety applied to commercial food service operations to comply with state regulations for sanitation certification. Includes certification knowledge of food borne illnesses and steps of food handling; personal hygiene, procurement, preparation, storage and service and equipment use, care, selection, and accident prevention. (Same as Culinary Arts 110.) CSU

Nutrition and Food 115 (C-ID NUTR 110)

Nutrition

Unit(s): 3.0

Class Hours: 48 Lecture total.

Recommended Preparation: English 101 or English 101H

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

Nutrition and Food 115H (C-ID NUTR 110) Honors Nutrition

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above

Recommended Preparation: English 101 or English 101H.

Seminar style, content enriched for honors students, to provide a critical and extensive exploration of the major areas of nutrition. Includes issues related to diet-related conditions. CSU/UC

Nutrition and Food 116 (C-ID NUTR 120)

Principles of Food Preparation

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: Negative T.B. test or chest X-ray
Recommended Preparation: English 101 or 101H.

Application of food science principles with emphasis on ingredient function and interaction, food preparation techniques, sensory evaluation standards, food safety and sanitation, and nutrient composition of food. CSU/UC

Nutrition and Food 118

Cultural Foods

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: Negative T.B. test or chest X-ray.

Explores the rich cross-cultural variety of food traditions and the ways that food in all cultures creates group identity. Examination of regional, ethnic, cultural, religious, historical and social influences on food patterns and cuisines. Laboratory work includes preparation of traditional foods discussed in class. CSU/UC

Nutrition and Food 120

Food Service Nutrition

Formerly: Nutrition and Food 062, Basic Techniques of Cooking

Unit(s): 2.0

Class Hours: 32 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

Nutrition and Food 121

Sports Nutrition

Unit(s): 3.0

Class Hours: 48 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 STUDIES (OS)

Occupational Studies 301

Therapeutic Approaches to the Older Adult

Unit(s): 3.0

Class Hours: 48 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.

Occupational Studies 304

Movement Theory & Analysis

Unit(s): 3.0

Class Hours: 48 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.



Occupational Studies 305
Advanced Pediatric Practice for the
Occupational Therapy Assistant (OTA)
 Unit(s): 3.0

Class Hours: 48 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.

Occupational Studies 310
Community-Based Occupational Therapy
Practice
 Unit(s): 3.0

Class Hours: 48 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.

Occupational Studies 312
Advanced Practice Areas in Occupational
Therapy (OT)
 Unit(s): 3.0

Class Hours: 48 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.

Occupational Studies 325
Applying Research to Occupational Therapy
Intervention
 Unit(s): 3.0

Class Hours: 48 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.

Occupational Studies 402
Neurological Principles in Human
Performance
 Unit(s): 4.0

Class Hours: 64 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.

Occupational Studies 403
Leadership for the Occupational Therapy
Assistant (OTA)
 Unit(s): 2.0

Class Hours: 32 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.

Occupational Studies 410
Healthcare Systems
 Unit(s): 3.0

Class Hours: 48 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.)

Occupational Studies 412
Capstone Seminar
 Unit(s): 3.0

Class Hours: 48 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.

OCCUPATIONAL THERAPY
ASSISTANT (OTA)

Occupational Therapy Assistant 100
Medical Terminology and Documentation for
the O.T.A.

Formerly: Occupational Therapy Assistant
100, Terminology and Documentation for the
O.T.A.

Unit(s): 1.0
 Class Hours: 16 Lecture total.
 Prerequisite: Biology 149 or Biology 239 and
 Biology 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

Occupational Therapy Assistant 101
Foundations of Occupation and Occupational
Therapy

Unit(s): 4.0
 Class Hours: 64 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

Occupational Therapy Assistant 101L
Exploration of Occupation Through Activity

Unit(s): 2.0
 Class Hours: 102 Laboratory total.
 Prerequisite: English 101/101H, and 3 units
 of Communication Studies (101/101H, 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



**Occupational Therapy Assistant 102
Psychosocial Function and Dysfunction**

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: Occupational Therapy Assistant 101 and Occupational Therapy Assistant 101L 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

**Occupational Therapy Assistant 102L
Psychosocial Components of Occupation**

Unit(s): 2.5

Class Hours: 128 Laboratory total.

Prerequisite: Occupational Therapy Assistant 100, Occupational Therapy Assistant 101, and Occupational Therapy Assistant 101L 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

**Occupational Therapy Assistant 103
Physical Function and Dysfunction**

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: Occupational Therapy Assistant 102 and Occupational Therapy Assistant 102L 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

**Occupational Therapy Assistant 103L
Physical Components of Occupation**

Unit(s): 2.5

Class Hours: 128 Laboratory total.

Prerequisite: Occupational Therapy Assistant 102 and Occupational Therapy Assistant 102L 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

**Occupational Therapy Assistant 110
Human Occupation Across Lifespan**

Unit(s): 3.0

Class Hours: 48 Lecture total.

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

**Occupational Therapy Assistant 111
Applied Kinesiology**

Unit(s): 1.0

Class Hours: 16 Lecture total.

Prerequisite: Occupational Therapy Assistant 101 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

**Occupational Therapy Assistant 115
Human Disease and Occupation**

Unit(s): 2.0

Class Hours: 32 Lecture total.

Prerequisite: Occupational Therapy Assistant 101 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

**Occupational Therapy Assistant 201
Contemporary Models of Occupational
Therapy Practice**

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory total.

Prerequisite: Occupational Therapy Assistant 102 and Occupational Therapy Assistant 102L 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

**Occupational Therapy Assistant 202
Level II Fieldwork - Part I**

Unit(s): 6.0

Class Hours: 320 Laboratory total.

Prerequisite: Occupational Therapy Assistant 103, 103L and 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. Grade: Pass/No Pass Only. CSU

**Occupational Therapy Assistant 203
Level II Fieldwork - Part II**

Unit(s): 6.0

Class Hours: 320 Laboratory total.

Prerequisite: Occupational Therapy Assistant 103, Occupational Therapy Assistant 103L, and Occupational Therapy Assistant 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. Grade: Pass/No Pass Only. CSU

PARALEGAL (PARA)

Paralegal 100

The Paralegal Profession

Unit(s): 3.0

Class Hours: 48 Lecture total.

A study of the paralegal/legal assistant profession. A study of career opportunities and legal requirements to become a paralegal/legal assistant. A study of the ethics of the legal profession. CSU

Paralegal 101

Law Office Management

Unit(s): 2.0

Class Hours: 32 Lecture total.

Prerequisite: Paralegal 100 with a minimum grade of C or concurrent enrollment.

Structure and procedures of the law office. Emphasis on organization of filing systems; litigation management; calendaring; tickler systems; indexing and summarizing documents; timekeeping; fees and billing; job search; and law office layout. CSU

Paralegal 105

**Cooperative Work Experience Education -
Occupational**

Unit(s): 1.0 - 4.0

Class Hours: 60 - 300 Lecture 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. Grade: Pass/No Pass Only. CSU

Paralegal 107

**Principles and Procedures in the Criminal
Justice System**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Role, responsibilities, and interrelationships of segments in justice system; law enforcement, courts, corrections, and exposure to procedures from initial entry to probation and/or parole. (Same as Criminal Justice 107.) CSU

**Paralegal 120****Computers in the Law Office**

Unit(s): 4.0

Class Hours: 64 Lecture total.

Basic computer concepts for law office personnel. The focus will be on current hardware and software used in the law office. CSU

Paralegal 121**Ethics and Professional Responsibility**

Unit(s): 2.0

Class Hours: 32 Lecture total.

Prerequisite: Paralegal 100 with a minimum grade of C or concurrent enrollment.

Ethics and professional responsibility for paralegals: fees, client funds, billing, advertising, solicitation, unauthorized practice, deceit, and confidentiality; conflict of interest, suppressing evidence, reporting misconduct and professional practice obligations. CSU

Paralegal 122**Elder Law**

Unit(s): 2.0

Class Hours: 32 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

Paralegal 130**Legal Transactions**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Paralegal 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

Paralegal 131**Alternate Dispute Resolution**

Unit(s): 2.0

Class Hours: 32 Lecture total.

Prerequisite: Paralegal 100 with a minimum grade of C or concurrent enrollment.

Conflict resolution through techniques of negotiation, mediation, and arbitration. Students will identify sources of conflict, analyze personalities, mediate impartially, and use tools to maximize negotiation effectiveness. The course includes application of mediation skills in the law office and in other situations. CSU

Paralegal 132**Family Law and Procedure**

Unit(s): 2.0

Class Hours: 32 Lecture total.

Study of basic substantive law and procedures in family law area: 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

Paralegal 133**Workers Compensation Law and Procedure**

Unit(s): 2.0

Class Hours: 32 Lecture total.

Laws and procedures related to workers 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

Paralegal 134**Probate Law and Procedure**

Unit(s): 2.0

Class Hours: 32 Lecture total.

Probate and estate planning procedures. Skills required to draft probate documents, assist attorneys in administration of estates, and monitoring asset and fiduciary accountings. Basic probate laws, wills, trusts, and taxes. Field trip may be required. CSU

Paralegal 135**Bankruptcy Law and Procedure**

Unit(s): 2.0

Class Hours: 32 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

Paralegal 136**Real Property Law and Procedure**

Unit(s): 2.0

Class Hours: 32 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

Paralegal 137**Tort and Insurance Law**

Unit(s): 2.0

Class Hours: 32 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

Paralegal 138**Law of Business Organizations**

Unit(s): 2.0

Class Hours: 32 Lecture total.

Prerequisite: Paralegal 100 with a minimum grade of C or concurrent enrollment.

Laws of the California Corporations Code. Students prepare articles of incorporation, minutes, by-laws, stock, and stock transfer. Agency law and partnership laws. CSU

Paralegal 139**Fundamentals of Labor Law**

Unit(s): 2.0

Class Hours: 32 Lecture total.

Prerequisite: Paralegal 100 with a minimum grade of C or concurrent enrollment.

Principles of substantive and procedural law, stressing union representation and unfair labor practices under the National Labor Relations Act. Stresses principles of arbitration, contractual and disciplinary employment disputes, and pursuing remedies and presenting defenses for violations of equal employment, sexual harassment, and wrongful termination. CSU

Paralegal 140**Immigration Law and Procedure**

Unit(s): 2.0

Class Hours: 32 Lecture total.

Prerequisite: Paralegal 100 with a minimum grade of C or concurrent enrollment.

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

Paralegal 143**Civil Litigation Overview**

Unit(s): 2.0

Class Hours: 32 Lecture total.

Prerequisite: Paralegal 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

Paralegal 144**Current Issues in Civil Litigation Discovery Formerly: Discovery Techniques**

Unit(s): 2.0

Class Hours: 32 Lecture total.

Focus on the Discovery Phase of litigation. The study of the California Rules of Court, California Statutes and procedures for e-filing and discovery regulations regarding the retention and production of electronic data in a Civil Litigation case. Practical applications for paralegal. CSU

**Paralegal 145****Civil Litigation Overview**

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: Paralegal 100 with a minimum grade of C or concurrent enrollment.

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

Paralegal 146**Tort Law and Alternative Dispute Resolution**

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: Paralegal 100 with a minimum grade of C or concurrent enrollment.

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

Paralegal 147**International Commercial Agreements and Distribution Law**

Unit(s): 1.0

Class Hours: 16 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

Paralegal 148**International Intellectual Property Law**

Unit(s): 1.0

Class Hours: 16 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

Paralegal 149**The Law of Global Commerce**

Unit(s): 1.0

Class Hours: 16 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

Paralegal 150**Legal Transactions**

Unit(s): 5.0

Class Hours: 80 Lecture total.

Prerequisite: Paralegal 100 with a minimum grade of C or concurrent enrollment.

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

Paralegal 246**Legal Research and Analysis**

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory total.

Prerequisite: Paralegal 100 with a minimum grade of C or concurrent enrollment.

Principles of research, analysis, and techniques for the Paralegal. Must be familiar with civil procedure. CSU

Paralegal 248**Advanced Research and Writing**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Paralegal 100 and Paralegal 246 with a minimum grade of C.

Advanced projects in legal research and writing emphasis on legal form and style. Field trips may be required. CSU

Paralegal 297**The Professional Paralegal**

Unit(s): 2.0

Class Hours: 32 Lecture total.

Prerequisite: Paralegal 100, 101, 120, 121, 246, and either (Business 101 or 105) or all of the following: (Paralegal 107, 130, 131, 136, 137, and 138) with a minimum grade of C.

This is the capstone class to the paralegal degree formally known as Para 298. Students will demonstrate their knowledge of ethics, legal principles, and the technical skills necessary for entry level employment as a paralegal. Grade: Pass/No Pass Only. CSU

Paralegal 299**Cooperative Work Experience Education**

Unit(s): 1.0 - 4.0

Class Hours: 60 - 300 Lecture 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. Grade: Pass/No Pass Only. CSU

PHARMACY TECHNOLOGY (PHAR)**Pharmacy Technology 048****Introduction to Pharmacy Technology**

Unit(s): 2.0

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 pharmaceutical dosage forms, the drug development process, and drug classification systems. Introduction to prescription labeling and to the law and ethics of pharmacy practice.

Pharmacy Technology 051**Body Systems I**

Unit(s): 3.5

Class Hours: 56 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.

Pharmacy Technology 052**Body Systems II**

Unit(s): 3.5

Class Hours: 56 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.

Pharmacy Technology 054A**Beginning Pharmacy Calculations**

Unit(s): 1.0

Class Hours: 16 Lecture total.

Recommended Preparation: Mathematics N06

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.



Pharmacy Technology 054B
Advanced Pharmacy Calculations

Unit(s): 1.0

Class Hours: 16 Lecture total.

Prerequisite: Pharmacy Technology 054A with a 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 alligation methods are included. There is emphasis on unit-cancellation for solving pharmacy situation problems as well as strong verbal component.

Pharmacy Technology 056
Pharmacy Operations

Unit(s): 4.5

Class Hours: 48 Lecture, 80 Laboratory total.

Prerequisite: Completion of Pharmacy Technology 048, 054, and 051 or 052 with a minimum grade of C, 30 wpm typing. 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.

Pharmacy Technology 056L
Pharmacy Technology Skills Lab

Unit(s): 0.5 - 1.0

Class Hours: 24 - 48 Laboratory total.

Co-Requisite: Concurrent enrollment in Pharmacy Technology-056. Returning students who took 056 can take Pharmacy Technology 056L 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 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. Grade: Pass/No Pass Only. Open Entry/ Open Exit.

Pharmacy Technology 057
Inpatient Pharmacy Services

Unit(s): 2.0

Class Hours: 18 Lecture, 48 Laboratory total.

Prerequisite: Completion of Pharmacy Technology 048, 054, and 051 or 052 with a minimum grades of C, 30wpm typing.

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.

Pharmacy Technology 057L
Pharmacy Technology Skills Lab

Unit(s): 0.5 - 1.0

Class Hours: 24 - 48 Laboratory total.

Prerequisite Or Co-Requisite: Concurrent enrollment in Pharmacy Technology-057. Returning students who took Pharmacy 057 can take Pharmacy Technology 057L 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 Services lab class (Pharmacy Technology 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. Grade: Pass/No Pass Only. Open Entry/ Open Exit.

Pharmacy Technology 060
Sterile Products

Unit(s): 4.5

Class Hours: 48 Lecture, 80 Laboratory total.

Prerequisite: Pharmacy Technology 048, 054, and 051 or 052 with a minimum grade of C, 30 wpm typing.

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.

Pharmacy Technology 060L
Pharmacy Technology Skills Lab

Unit(s): 0.5 - 1.0

Class Hours: 24 - 48 Laboratory total.

Prerequisite Or Co-Requisite: Concurrent enrollment in Pharmacy Technology-060. Returning students who took Pharmacy 060 can take Pharmacy Technology 060L 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 Sterile Products lab class (Pharmacy Technology 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. Grade: Pass/No Pass Only. Open Entry/ Open Exit.

Pharmacy Technology 072A
Pharmacy Technology Externship Outpatient
Formerly: Pharmacy Technology 072,
Pharmacy Technology Externship Outpatient

Unit(s): 0.5 - 1.5

Class Hours: 40 - 80 Laboratory total.

Prerequisite: Pharmacy Technology 056 and Communication Studies 097 or Communication Studies 101 or Communication Studies 101H or Communication Studies 102 with a minimum grade of C. Background checks, health screenings, current TB clearance and drugs test clearance.

On-site training in the outpatient (retail) practice setting. Students must complete Pharmacy Technology 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 Pharmacy Technology 072A is required for the Basic Certificate. Completion of Pharmacy Technology 072A, Pharmacy Technology 072B, Pharmacy Technology 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. Grade: Pass/No Pass Only. Open Entry/ Open Exit.

**Pharmacy Technology 072B****Pharmacy Technology Externship Inpatient**

Unit(s): 0.5 - 2.5

Class Hours: 40 - 120 Laboratory total.

Prerequisite: Pharmacy Technology 056 and Pharmacy Technology 057 and Communication Studies 097 or Communication Studies 101 or Communication Studies 101H or Communication Studies 102 with a minimum grade of C. Background checks, health screenings, current TB clearance and drugs test clearance.

On-site training in the inpatient (hospital) practice setting. Students must complete the following lab courses prior to placement: Pharmacy Technology 057 and Pharmacy Technology 056. Students must pass the trade-generic test prior to placement. Some sites require additional background, health screenings, and drugs tests. Completion of Pharmacy Technology 072A, Pharmacy Technology 072B, Pharmacy Technology 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. Open Entry/Open Exit.

Pharmacy Technology 072C**Pharmacy Technology Externship Sterile Products**

Unit(s): 0.5 - 2.5

Class Hours: 40 - 120 Laboratory total.

Prerequisite: Pharmacy Technology 060 and Communication Studies 097 or Communication Studies 101 or Communication Studies 101H or Communication Studies 102 with a minimum grade of C. Background checks, health screenings, current TB clearance and drugs 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: Pharmacy Technology 060. Students must pass the trade-generic test prior to placement. Some sites require additional background, health screenings, and drugs tests. Completion of Pharmacy Technology 072A, Pharmacy Technology 072B, Pharmacy Technology 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. Open Entry/Open Exit.

Pharmacy Technology 072L1**Pharmacy Technology Skills Lab**

Unit(s): 0.5 - 1.0

Class Hours: 24 - 48 Laboratory total.

Corequisite: Concurrent enrollment in Pharmacy Technology Externship Pharmacy Technology 072. Returning students who took Pharmacy Technology 056 can take Pharmacy Technology 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 (Pharmacy Technology 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. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Pharmacy Technology 072L2**Pharmacy Technology Skills Lab**

Unit(s): 0.5 - 1.0

Class Hours: 24 - 48 Laboratory total.

Corequisite: Concurrent enrollment in Pharmacy Technology Externship Pharmacy Technology 072. Returning students who took Pharmacy Technology 057 can take Pharmacy Technology 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 (Pharmacy Technology 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. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Pharmacy Technology 072L3**Pharmacy Technology Skills Lab**

Unit(s): 0.5 - 1.0

Class Hours: 24 - 48 Laboratory total.

Corequisite: Concurrent enrollment in Pharmacy Technology Externship Pharmacy Technology 072. Returning students who took Pharmacy Technology 060 can take Pharmacy Technology 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 (Pharmacy Technology 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. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Pharmacy Technology 084**Sterile Products Update**

Unit(s): 4.5

Class Hours: 48 Lecture, 80 Laboratory total.

Prerequisite: Pharmacy Technology 060 with a minimum grade of C.

Update 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.

**Pharmacy Technology 084L****Pharmacy Technology Skills Lab**

Unit(s): 0.5 - 1.0

Class Hours: 24 - 48 Laboratory total.

Prerequisite Or Corequisite: Concurrent enrollment in Pharmacy Technology 084, Sterile Products Update. Returning students who took Pharmacy Technology 060 or Pharmacy Technology 084 can take Pharmacy Technology 084L 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 Sterile Products Update class (Pharmacy Technology 084). 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. Grade: Pass/No Pass Only. Open Entry/Open Exit.

PHILOSOPHY (PHIL)**Philosophy 106 (C-ID PHIL 100)****Introduction to Philosophy**

Unit(s): 3.0

Class Hours: 48 Lecture total.

A survey of historical and contemporary ideas on how to live the good life. CSU/UC

Philosophy 106H (C-ID PHIL 100)**Honors Introduction to Philosophy**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

An enriched approach designed for honors students. A survey of historical and contemporary ideas on how to live the good life. CSU/UC

Philosophy 108 (C-ID PHIL 120)**Ethics**

Unit(s): 3.0

Class Hours: 48 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

Philosophy 110**Critical Thinking**

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: English 101 or English 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

Philosophy 110H**Honors Critical Thinking**

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: English 101/101H with a minimum grade of C and a high school or college GPA of 3.0 or above.

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

Philosophy 111 (C-ID PHIL 110)**Introductory Logic**

Unit(s): 4.0

Class Hours: 64 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

Philosophy 112**World Religions**

Unit(s): 3.0

Class Hours: 48 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 Primitive, Hinduism, Jainism, Buddhism, Taoism, Confucianism, Judaism, Christianity and Islam. CSU/UC

Philosophy 118**History of Philosophy**

Unit(s): 3.0

Class Hours: 48 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)**Photography 009****Photography Lab**

Unit(s): 0.5

Class Hours: 24 Laboratory total.

Prerequisite: Concurrent enrollment in a 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. May be repeated. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Photography 150**History of Photography**

Unit(s): 3.0

Class Hours: 48 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

Photography 180**Beginning Photography**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory 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

Photography 185A**Landscape Photography**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: Photography 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

Photography 185B**Landscape Photography**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: Photography 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

**Photography 191****Commercial Studio Practices**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: Photography 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 equipment, using scanning, digital printing, and commercial lighting techniques. CSU

Photography 194**Digital Workflow**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: Photography 180 with a minimum grade of C.

This class will provide a foundation for capturing and processing RAW digital photo files with the high end digital imaging hardware and software. CSU

Photography 196**Commercial Photography**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: Photography 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

Photography 197**Intermediate Commercial Photography**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: Photography 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

Photography 291**Wedding and Quinceañera Photography**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: Photography 180 with a minimum grade of C.

Instruction in fundamental concepts, equipment demands, and photographic techniques used by contemporary wedding/quinceañera photographers. CSU

Photography 292**Portrait Photography**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: Photography 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

Photography 294**Color Photographic Expression**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: Photography 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)**Physical Science 115****Concepts in Physical Sciences for Educators**

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory 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

Physical Science 117**Physical Science Survey**

Unit(s): 3.0

Class Hours: 48 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

Physical Science 118**Physical Science Survey Laboratory**

Unit(s): 1.0

Class Hours: 48 Laboratory 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)**Physics 109****Survey of General Physics**

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory 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

Physics 210 (C-ID PHYS 105)(C-ID PHYS 205)**Principles of Physics I**

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory total.

Prerequisite: Mathematics 180/180H 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

Physics 211 (C-ID PHYS 110)**Principles of Physics II**

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory total.

Prerequisite: Physics 210 and Mathematics 180/180H 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

Physics 217 (C-ID PHYS 205)**Engineering Physics I**

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory total.

Prerequisite: Mathematics 180/180H 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

Physics 227 (C-ID PHYS 210)**Engineering Physics II**

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory total.

Prerequisite: Physics 217 and Mathematics 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

**Physics 237****Engineering Physics III**

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory total.

Prerequisite: Physics 217 and Mathematics 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

Physics 279 (C-ID PHYS 105)**College Physics I**

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory total.

Prerequisite: Mathematics 160 with a minimum grade of C.

A trigonometry-based physics course. Topics include: mechanics, thermodynamics, fluids, oscillatory motion, and sound. CSU/UC

Physics 289 (C-ID PHYS 110)**College Physics II**

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory total.

Prerequisite: Physics 279 with a minimum grade of C.

A trigonometry-based physics course. Topics include: light, electricity, magnetism, and modern physics. CSU/UC

POLITICAL SCIENCE (POLT)**Political Science 101 (C-ID POLS 110)****Introduction to American Governments**

Unit(s): 3.0

Class Hours: 48 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

Political Science 101H (C-ID POLS 110)**Honors Introduction to American Governments**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

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

Political Science 200 (C-ID POLS 120)**American Political Thought**

Unit(s): 3.0

Class Hours: 48 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

Political Science 200H (C-ID POLS 120)**Honors American Political Thought**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

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

Political Science 201 (C-ID POLS 130)**Introduction to Comparative Politics**

Unit(s): 3.0

Class Hours: 48 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

Political Science 220 (C-ID POLS 140)**International Politics**

Unit(s): 3.0

Class Hours: 48 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

Political Science 235**Identity Politics**

Unit(s): 3.0

Class Hours: 48 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)**Psychology 100 (C-ID PSY 110)****Introduction to Psychology**

Unit(s): 3.0

Class Hours: 48 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

Psychology 100H (C-ID PSY 110)**Honors Introduction to Psychology**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

Seminar-style, content enriched course for honors students exploring the 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

Psychology 140**Introduction to Psychology of Adulthood And Aging**

Unit(s): 3.0

Class Hours: 48 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

Psychology 157 (C-ID CDEV 100)**Introduction to Child Psychology**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Survey of human development from conception through adolescence. Covers major theories development (cognition, perception, language, personality, social, etc.) and their application to parenting, teaching, and other interactions with children. CSU/UC

**Psychology 170****Multicultural Psychology**

Unit(s): 3.0

Class Hours: 48 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

Psychology 200 (C-ID PSY 150)**Introduction to Biological Psychology**

Unit(s): 3.0

Class Hours: 48 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

Psychology 210 (C-ID SOCI 125)**(C-ID MATH 110)****Statistics for the Behavioral Sciences**

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: Mathematics 080 or Mathematics 081 or Mathematics 083 or Mathematics 084 with a minimum grade of C; OR placement into Psychology 210 on the Mathematics Level 3 placement Exam and a course equivalent to Mathematics 080 or Mathematics 081 or Mathematics 083 or Mathematics 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

Psychology 219 (C-ID PSY 200)**Introduction to Research Methods in****Psychology**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: Social Science 219 or Mathematics 219 or Psychology 210 (may be taken concurrently) and Psychology 100 with a minimum grade of C.

Emphasizes methods of study in psychology, experimental design, analysis of variables contributing to experimental results, and data treatment. CSU/UC

Psychology 230**Psychology and Effective Behavior**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Application of theory and research in psychology to deal effectively with the adjustment demands of everyday life. Covers topics such as: interpersonal relationships, stress, health, time-management, and working. Includes exercises for increasing self-awareness, self-motivation, and self-management of everyday problems. CSU/UC

Psychology 240 (C-ID PSY 170)**Introduction to Social Psychology**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Psychology 100 or Sociology 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

Psychology 250**Introduction to Abnormal Psychology**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Psychology 100/100H 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)**Reading N50****Groundwork for Reading**

Unit(s): 3.0

Class Hours: 48 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: Pass/No Pass Only.

Reading N80**Fundamentals of Reading**

Unit(s): 3.0

Class Hours: 48 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.

Reading 091**Reading for Meaning-U.S. History**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Introduction to critical reading and development of background information and reading strategies needed for success in understanding texts, essays, and news articles relating to U.S. history and government. Grade: Pass/No Pass Only.

Reading 096**Individualized Reading Skills**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Individualized instruction in vocabulary, comprehension, critical evaluation, and reading rate. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Reading 101**Introduction to Academic Reading**

Unit(s): 3.0

Class Hours: 48 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

Reading 102**Academic Reading**

Unit(s): 3.0

Class Hours: 48 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

Reading 150**Critical Reading**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Recommended Preparation: Successful completion of English 101 or English 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

**Reading 198****Topics**

Unit(s): 1.0 - 3.0

Class Hours: 16 - 48 Lecture total.

Specialized courses on topics related to current needs of students. Not offered every semester. CSU

SOCIOLOGY (SOC)**Sociology 100 (C-ID SOCI 110)****Introduction to Sociology**

Unit(s): 3.0

Class Hours: 48 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

Sociology 100H (C-ID SOCI 110)**Honors Introduction to Sociology**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

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

Sociology 112 (C-ID SOCI 130)**Relationships, Marriages, and Family****Dynamics**

Unit(s): 3.0

Class Hours: 48 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

Sociology 140 (C-ID SOCI 115)**Social Problems****Formerly: Analysis of Social Trends and Problems**

Unit(s): 3.0

Class Hours: 48 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

Sociology 140H (C-ID SOCI 115)**Honors Analysis of Social Trends and Problems**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

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

Sociology 240 (C-ID PSY 170)**Introduction to Social Psychology**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Sociology 100 or Psychology 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. CSU/UC

Sociology 401**The Sociology of Health, Illness, and Healing**

Unit(s): 3.0

Class Hours: 48 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.

SPANISH (SPAN)**Spanish 101 (C-ID SPAN 100)****Elementary Spanish I**

Unit(s): 5.0

Class Hours: 80 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

Spanish 101H (C-ID SPAN 100)**Honors Elementary Spanish I**

Unit(s): 5.0

Class Hours: 80 Lecture total.

A high school or college GPA of 3.0 or above.

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

Spanish 102 (C-ID SPAN 110)**Elementary Spanish II**

Unit(s): 5.0

Class Hours: 80 Lecture total.

Prerequisite: Spanish 101 or Spanish 101H or two years of high school Spanish with a minimum grade of C.

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

Spanish 102H (C-ID SPAN 110)**Honors Elementary Spanish II**

Unit(s): 5.0

Class Hours: 80 Lecture total.

Prerequisite: Spanish 101/101H or two years of high school Spanish with a minimum grade of C, and a high school or college GPA of 3.0 or above.

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

Spanish 195A**Advanced Conversational Spanish**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Spanish 102 or 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

**Spanish 195B****Advanced Conversational Spanish**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Spanish 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

Spanish 198**Topics in Spanish**

Unit(s): 0.5 - 3.0

Class Hours: 8 - 54 Lecture total.

A specialized course on topics related to current needs of students. CSU

Spanish 201 (C-ID SPAN 200)**Intermediate Spanish I**

Unit(s): 5.0

Class Hours: 80 Lecture total.

Prerequisite: Spanish 102 or 102H or three years of high school Spanish with a grade of C or better.

A college level Spanish class focusing on expansive review of usage and grammar, discussions of interpretive readings, conversation, and composition. CSU/UC

Spanish 201H (C-ID SPAN 200)**Honors Intermediate Spanish I**

Unit(s): 5.0

Class Hours: 80 Lecture total.

Prerequisite: Spanish 102/102H with a minimum grade of C and a high school or college GPA of 3.0 or above.

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

Spanish 202 (C-ID SPAN 210)**Intermediate Spanish II**

Unit(s): 5.0

Class Hours: 80 Lecture total.

Prerequisite: Spanish 201/201H or four years of high school Spanish with a minimum grade of C.

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

Spanish 202H (C-ID SPAN 210)**Honors Intermediate Spanish II**

Unit(s): 5.0

Class Hours: 80 Lecture total.

Prerequisite: Spanish 201/201H with a minimum grade of C and a high school or college GPA of 3.0 or above.

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

Spanish 212**College Business Spanish**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Spanish 202/202H with a minimum grade of C and three years of high school Spanish with a minimum grade of C.

A course designed to give intermediate level students a solid foundation in business vocabulary, basic business and cultural concepts, and a situational practice necessary to be successful in today's Spanish-speaking business world. The course is designed for students majoring in Spanish, International Studies, and International Business. CSU/UC

Spanish 213**College Spanish Composition**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Spanish 201 with a minimum grade of C or three years of high school Spanish with a minimum grade of C; OR concurrent enrollment in Spanish 201.

Writing of composition through discussions and interpretive readings. CSU/UC

Spanish N51**Spanish for Public Personnel**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Designed for those needing basic Spanish conversation and vocabulary in a specific field of work, such as law enforcement, fire safety, health, and education. Includes clear and concise communication for emergency situations. Not applicable to associate degree.

SPECIAL SERVICES (SPEC)**Special Services N44****Reading Development for the Deaf**

Unit(s): 0.5 - 3.0

Class Hours: 8 - 48 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.

Special Services N50A**English for the Deaf and Hard of Hearing**

Unit(s): 0.5 - 3.0

Class Hours: 8 - 48 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 audiological verifiable hearing loss. Not applicable to associate degree. Open Entry/Open Exit.

Special Services N50B**English for the Deaf and Hard of Hearing**

Unit(s): 0.5 - 3.0

Class Hours: 8 - 48 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 audiological verifiable hearing loss. Not applicable to associate degree. Open Entry/Open Exit.

Special Services N84**Employment Preparation**

Unit(s): 0.5 - 3.0

Class Hours: 8 - 48 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. Grade: Pass/No Pass Only. Open Entry/Open Exit.

**Special Services N91****Computer Assisted Cognitive Learning**

Unit(s): 0.5 - 1.5

Class Hours: 24 - 72 Laboratory 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. May be repeated. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Special Services N92**Assistive Computer Technology Instruction**

Unit(s): 0.5 - 2.0

Class Hours: 16 Lecture, 24 Laboratory 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. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Special Services N94**Intermediate Cognitive Retraining**

Unit(s): 0.5 - 1.5

Class Hours: 24 - 72 Laboratory 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. Grade: Pass/No Pass Only.

Special Services N95**Cognitive Retraining - Academic Transition**

Unit(s): 0.5 - 1.5

Class Hours: 24 - 72 Laboratory 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. Grade: Pass/No Pass Only.

SPEECH-LANGUAGE PATHOLOGY ASSISTANT (SLPA)**Speech-Language Pathology Assistant 118****Introduction to Speech-Language Pathology**

Assisting

Unit(s): 1.0

Class Hours: 16 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

Speech-Language Pathology Assistant 119**Speech-Language and Hearing Development****Across the Life Span**

Unit(s): 3.0

Class Hours: 48 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

Speech-Language Pathology Assistant 120**Speech-Language Pathology Clinical****Management and Procedures**

Unit(s): 2.0

Class Hours: 32 Lecture total.

Prerequisite: Speech Language Pathology Assistant 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

Speech-Language Pathology Assistant 150**Observation of Speech-Language Pathology Clinical Practices**

Unit(s): 0.5

Class Hours: 28 Laboratory total.

Prerequisite: Speech-Language Pathology Assistant 118 with a minimum grade of C and concurrent enrollment in Speech-Language Pathology Assistant 160.

Beginning clinical observation of practices and procedures required in speech-language pathology. Observation sites will be in both educational and medical settings. CSU

Speech-Language Pathology Assistant 160**Introduction to Communicative Disorders****And Treatment**

Unit(s): 3.0

Class Hours: 48 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

Speech-Language Pathology Assistant 180**Speech-Language Pathology Screening****Processes and Intervention Procedures**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: Speech-Language Pathology

Assistant 120 and Speech-Language Pathology Assistant 150 and Speech-Language Pathology Assistant 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

Speech-Language Pathology Assistant 190**Speech-Language Pathology Assistant Clinical****Field Work I**

Unit(s): 2.0

Class Hours: 4 Lecture, 96 Laboratory total.

Prerequisite: Speech-Language Pathology Assistant 120 and Speech-Language Pathology Assistant 150 and Speech-Language Pathology Assistant 160 with a minimum grade of C and Application to Department Coordinator required prior to enrollment; current negative TB clearance; fingerprinting and background check; current CPR and First Aid Certification and concurrent enrollment in Speech-Language Pathology Assistant 1

Application of supervised clinical practice procedures as required of a speech-language pathology assistant in an educational setting. CSU

Speech-Language Pathology Assistant 200**Adult and Geriatric Communication Disorders**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Speech-Language Pathology Assistant 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



**Speech-Language Pathology Assistant 250
Speech-Language Pathology Assistant Clinical
Fieldwork II**

Unit(s): 2.0

Class Hours: 4 Lecture, 96 Laboratory total.

Prerequisite: Speech-Language Pathology Assistant 180 and Speech-Language Pathology Assistant 190 with a minimum grade of C and Application to Department Coordinator required prior to enrollment; current negative TB clearance; fingerprinting and background check; current CPR and First Aid Certification.

Advanced application of clinical practice procedures in a clinical or medical setting by the speech-language pathology assistant under the supervision of a speech-language pathologist. CSU

STUDY SKILLS (STDY)

Study Skills 091

Effective Study Techniques

Unit(s): 1.0

Class Hours: 16 Lecture total.

A short-term course designed to teach effective college study skills. Topics include time management, textbook study, lecture notetaking, test taking strategies, exam preparation. May be repeated. Grade: Pass/No Pass Only.

Study Skills 109

College Learning Skills

Unit(s): 3.0

Class Hours: 48 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)**

TV/Video Communications 009A

**TV/Video Communications Laboratory
Laboratory**

Unit(s): 0.5

Class Hours: 24 Laboratory total.

Corequisite: Concurrent enrollment in TV/Video Communications 110 or TV/Video Communications 112 or TV/Video Communications 115A or TV/Video Communications 115B or TV/Video Communications 130 or TV/Video Communications 150 or TV/Video Communications 152.

Sign-in/out supervised work on beginning television projects/production assigned in a 100 level TV/Video Communications class. Accumulation of 24 hours earns 0.5 unit. Grade: Pass/No Pass Only. Open Entry/Open Exit.

TV/Video Communications 009B

**TV/Video Communications Laboratory
Laboratory**

Unit(s): 0.5

Class Hours: 24 Laboratory total.

Corequisite: Concurrent enrollment in TV/Video Communications 110 or TV/Video Communications 112 or TV/Video Communications 115A or TV/Video Communications 115B or TV/Video Communications 130 or TV/Video Communications 150 or TV/Video Communications 152.

Sign-in/out supervised work on intermediate television projects/production assigned in a 100 level TV/Video Communications class. Accumulation of 24 hours earns 0.5 unit. Grade: Pass/No Pass Only. Open Entry/Open Exit.

TV/Video Communications 009C

**TV/Video Communications Laboratory
Laboratory**

Unit(s): 0.5

Class Hours: 24 Laboratory total.

Corequisite: Concurrent enrollment in TV/Video Communications 110 or TV/Video Communications 112 or TV/Video Communications 115A or TV/Video Communications 115B or TV/Video Communications 130 or TV/Video Communications 150 or TV/Video Communications 152.

Sign-in/out supervised work on advanced television projects/production assigned in a 100 level TV/Video Communications class. Accumulation of 24 hours earns 0.5 unit. Grade: Pass/No Pass Only. Open Entry/Open Exit.

TV/Video Communications 010A

**TV/Video Communications Advanced
Advanced Laboratory I**

Unit(s): 0.5

Class Hours: 24 Laboratory total.

Corequisite: Concurrent enrollment in TV/Video Communications 215 or TV/Video Communications 230A or TV/Video Communications 230B or TV/Video Communications 230C or TV/Video Communications 230D or TV/Video Communications 260.

Sign-in/out supervised work on beginning television projects/production assigned in a 200 level TV/Video Communications class. Accumulation of 24 hours earns 0.5 unit. Grade: Pass/No Pass Only. Open Entry/Open Exit.

TV/Video Communications 010B

**TV/Video Communications Advanced
Advanced Laboratory II**

Unit(s): 0.5

Class Hours: 24 Laboratory total.

Corequisite: Concurrent enrollment in TV/Video Communications 215 or TV/Video Communications 230A or TV/Video Communications 230B or TV/Video Communications 230C or TV/Video Communications 230D or TV/Video Communications 260.

Sign-in/out supervised work on advanced beginning television projects/production assigned in a 200 level TV/Video Communications class. Accumulation of 24 hours earns 0.5 unit. Grade: Pass/No Pass Only. Open Entry/Open Exit.

TV/Video Communications 010C

**TV/Video Communications Advanced
Advanced Laboratory III**

Unit(s): 0.5

Class Hours: 24 Laboratory total.

Corequisite: Concurrent enrollment in TV/Video Communications 215 or TV/Video Communications 230A or TV/Video Communications 230B or TV/Video Communications 230C or TV/Video Communications 230D or TV/Video Communications 260.

Sign-in/out supervised work on intermediate television projects/production assigned in a 200 level TV/Video Communications class. Accumulation of 24 hours earns 0.5 unit. Grade: Pass/No Pass Only. Open Entry/Open Exit.

TV/Video Communications 010D

**TV/Video Communications Advanced
Advanced Laboratory IV**

Unit(s): 0.5

Class Hours: 24 Laboratory total.

Corequisite: Concurrent enrollment in TV/Video Communications 215 or TV/Video Communications 230A or TV/Video Communications 230B or TV/Video Communications 230C or TV/Video Communications 230D or TV/Video Communications 260.

Sign-in/out supervised work on intermediate television projects/production assigned in a 200 level TV/Video Communications class. Accumulation of 24 hours earns 0.5 unit. Grade: Pass/No Pass Only. Open Entry/Open Exit.

TV/Video Communications 100

**Introduction to Electronic Media: TV, Radio,
Film, and the Internet**

Unit(s): 3.0

Class Hours: 48 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



TV/Video Communications 101
TV and Society: A Visual History

Unit(s): 3.0

Class Hours: 48 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

TV/Video Communications 103
History of Film to 1945

Unit(s): 3.0

Class Hours: 48 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

TV/Video Communications 104
History of Film From 1945 to Present

Unit(s): 3.0

Class Hours: 48 Lecture total.

A lecture/visual aids course exploring film as an art form and developing appreciation of historical, artistic and technical advances. CSU/UC

TV/Video Communications 110
Introduction to Television Production

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Introduction to production of television programs and operation of studio and field 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. CSU

TV/Video Communications 112
Introduction to Video Editing and Postproduction

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory 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. Completion of Television/Video Communications 110 or concurrent enrollment recommended. CSU

TV/Video Communications 115A (C-ID FTVE 130)

Single-Camera Production and Editing

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Fundamental approaches and techniques utilized in single-camera production for television, film, web and multi-media. Hands-on training in operation of portable analog and digital video and audio production equipment, as well as lighting. Prior or concurrent enrollment in Television/Video Communications 110 and 112 recommended. CSU

TV/Video Communications 115B
Advanced Single-Camera Production and Editing

Unit(s): 3.0

Class Hours: 48 Lecture, 48 Laboratory total.

Prerequisite: TV/Video Communications 115A with a minimum grade of C.

Continued development of knowledge and skills in single-camera production technology and practices. Emphasis on professional production standards and technical advancements in digital and High Definition TV. Individual assignments vary in subsequent semesters. Prior or concurrent enrollment in Television/Video Communications 110 and 112 recommended. CSU

TV/Video Communications 120
Beginning Screenwriting for TV, Film, The Web, Corporate Video and Digital Media

Unit(s): 3.0

Class Hours: 48 Lecture total.

Recommended Preparation: English 101 or English 101H.

Designed to acquaint students with fundamentals 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

TV/Video Communications 121
Intermediate Scriptwriting for TV, Film, the Web, Corporate Video and Digital Media

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: TV/Video Communications 120 with a minimum grade of C.

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. CSU

TV/Video Communications 123
Advanced Scriptwriting for TV, Film, The Web, Corporate Video and Digital Media Video

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: TV/Video Communications 121 with a minimum grade of C.

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. CSU

TV/Video Communications 130
Principles of Broadcast News

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory 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 Television/Video Communications 110 recommended. CSU

TV/Video Communications 131
Beginning Broadcast News Workshop

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory 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

TV/Video Communications 132
Intermediate Broadcast News Workshop

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Prerequisite: TV/Video Communications 130 or TV/Video Communications 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

TV/Video Communications 133
Advanced Broadcast News Workshop

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Prerequisite: TV/Video Communications 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

TV/Video Communications 140
Cinematography

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Concepts and practice of cinema-graphic, filming, and lighting techniques as applied to single-camera film and video production. CSU

TV/Video Communications 142
Acting for the Camera

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory 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

**TV/Video Communications 150****Producing and Directing for Television**

Unit(s): 3.0

Class Hours: 48 Lecture, 48 Laboratory total.

Prerequisite: TV/Video Communications 110 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. Different directing/producing assignments each semester. Prior or concurrent enrollment in TV/Video Communication 112, and 115A recommended. CSU/UC

TV/Video Communications 152**Beginning Audio Production**

Unit(s): 3.0

Class Hours: 48 Lecture, 16 Laboratory 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

TV/Video Communications 190**Introduction to Protocols**

Unit(s): 1.5

Class Hours: 16 Lecture, 24 Laboratory 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

TV/Video Communications 193**Motion Graphics with Adobe After Effects**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.

Recommended Preparation

Art 195 with a minimum grade of C and/or TV/Video Communications 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)

TV/Video Communications 215**Advanced Single-Camera/Digital Cinema Production**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Recommended Preparation: Completion of or concurrent enrollment in TV/Video Communications 110 and TV/Video Communications 112 and TV/Video Communications 115A.

Introduction to 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. Prior enrollment in Television/Video Communications 110, 112 and 115A recommended. CSU

TV/Video Communications 230A**Broadcast News Production**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: TV/Video Communications 130 with a minimum grade of C.

Emphasizes actual live production of a weekly on-air cable newscast using latest newsgathering methodology and equipment. Prior or concurrent enrollment in Television/Video Communications 110, 112 and 115A recommended. CSU

TV/Video Communications 230B**Broadcast News Production**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: TV/Video Communications 230A with a minimum grade of C.

Emphasizes actual live production of a weekly on-air cable newscast using latest newsgathering methodology and equipment. More advanced assignments than Television/Video Communications 230A. Prior or concurrent enrollment in Television/Video Communications 110, 112 and 115A recommended. CSU

TV/Video Communications 230C**Broadcast News Production**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: TV/Video Communications 230B with a minimum grade of C.

Emphasizes actual live production of a weekly on-air cable newscast using latest newsgathering methodology and equipment. More advanced assignments than Television/Video Communications 230B. Prior or concurrent enrollment in Television/Video Communications 110, 112 and 115A recommended. CSU

TV/Video Communications 230D**Broadcast News Production**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: TV/Video Communications 230C with a minimum grade of C.

Emphasizes actual live production of a weekly on-air cable newscast using latest newsgathering methodology and equipment. More advanced assignments than Television/Video Communications 230C. Prior or concurrent enrollment in Television/Video Communications 110, 112 and 115A recommended. CSU

TV/Video Communications 240**Agency Film Production**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: TV/Video Communications 115A and TV/Video Communications 112 and TV/Video Communications 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 in order to learn how to produce and direct advertising agency productions. CSU

TV/Video Communications 255**Motion Picture Technical Production**

Unit(s): 3.0

Class Hours: 16 Lecture, 96 Laboratory total.

Prerequisite: TV/Video Communications 115A and TV/Video Communications 112 with a minimum grade of C.

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

TV/Video Communications 260**Lighting Fundamentals TV/Video**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory 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 Theatre Arts 133.) CSU

TV/Video Communications 298**TV/Video Communications Practicum/ Internship**

Unit(s): 3.0

Class Hours: 8 Lecture, 120 Laboratory 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. Grade: Pass/No Pass Only. Open Entry/Open Exit. CSU



THEATRE ARTS (THEA)

Theatre Arts 100 (C-ID THTR 111)

Introduction to Theatre

Unit(s): 3.0

Class Hours: 48 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

Theatre Arts 105 (C-ID THTR 113)

Theatre History I

Unit(s): 3.0

Class Hours: 48 Lecture total.

The study of the history of theatre from the origins of Theatre through the 19th century. The history and development of theatre and drama are studied in relationship to cultural, political, and social conditions of the time. Plays are studied for analysis of structure, plot, character, and historical relevance. CSU/UC

Theatre Arts 107

Acting for the Non-Actor

Unit(s): 3.0

Class Hours: 48 Lecture, 16 Laboratory total.

Acting techniques are learned to enhance life and business skills. Intended to help all individuals become more successful professionals in their chosen careers. (Same as Entrepreneurship 147.) CSU

Theatre Arts 108

The Business of Entertainment

Unit(s): 3.0

Class Hours: 48 Lecture total.

The study of business issues relating to the entertainment industry with a focus on the formats of film, web, TV, and live performance. This course is designed for individuals desiring a career in entertainment. (Same as Entrepreneurship 148.) CSU

Theatre Arts 110 (C-ID THTR 151)

Acting Fundamentals

Unit(s): 3.0

Class Hours: 48 Lecture, 16 Laboratory 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 Theatre Arts 110, 111, and 113 may be taken a maximum of four enrollments. CSU/UC

Theatre Arts 111 (C-ID THTR 152)

Intermediate Acting

Unit(s): 3.0

Class Hours: 48 Lecture, 16 Laboratory total.

Prerequisite: Theatre Arts 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 Theatre Arts 110, 111, and 113 may be taken a maximum of four enrollments. CSU/UC

Theatre Arts 113

Acting for the Camera

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory 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 Television/Video Communications 142). A combination of Theatre Arts 110, 111, and 113 may be taken a maximum of four enrollments. CSU/UC

Theatre Arts 114

Acting for the Camera II

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Recommended Preparation: Theatre Arts 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

Theatre Arts 118

Fundamentals of Scene Study

Unit(s): 2.0

Class Hours: 32 Lecture, 32 Laboratory 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. Recommended for acting majors. CSU/UC

Theatre Arts 131 (C-ID THTR 171)

Stagecraft

Unit(s): 3.0

Class Hours: 48 Lecture, 32 Laboratory 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. Concurrent enrollment in Theatre Arts 135 is recommended. CSU/UC

Theatre Arts 132 (C-ID THTR 175)

Stage Makeup

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory 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

Theatre Arts 133 (C-ID THTR 173)

Lighting Fundamentals

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory 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 TV/Video Communications 260.) CSU/UC

Theatre Arts 135 (C-ID THTR 192)

Technical Production

Unit(s): 1.0

Class Hours: 80 Laboratory 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. May be repeated. CSU/UC

Theatre Arts 136 (C-ID THTR 174)

Fundamentals of Costume Design

Unit(s): 3.0

Class Hours: 16 Laboratory, 48 Lecture 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 Fashion Design & Merchandising 136.) CSU/UC

Theatre Arts 140A

Theatre Performance

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory 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

**Theatre Arts 140B****Theatre Performance II**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Prerequisite: Theatre Arts 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

Theatre Arts 140C**Theatre Performance III**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Prerequisite: Theatre Arts 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

Theatre Arts 140D**Theatre Performance IV**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Prerequisite: Theatre Arts 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

Theatre Arts 150 (C-ID THTR 192)**Theatre Production**

Unit(s): 2.0

Class Hours: 16 Lecture, 70 Laboratory total.

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. May be repeated. CSU/UC

Theatre Arts 150A (C-ID THTR 191)**Rehearsal and Performance in Production**

Unit(s): 2.0

Class Hours: 16 Lecture, 70 Laboratory total.

Audition

Practical experience in performance production culminating in a series of public performances. All actors must audition and be cast prior to enrolling. May be repeated. CSU/UC

Theatre Arts 150B (C-ID THTR 192)**Technical Theatre in Production**

Unit(s): 2.0

Class Hours: 16 Lecture, 70 Laboratory total.

Audition

Students will gain practical experience in the application of production responsibilities in any of the following: stage management, scenery construction, properties, costume, lighting, or sound. This course culminates into a series of public performances. All student technicians must obtain instructor approval prior to enrolling. May be repeated. CSU/UC

Theatre Arts 151 (C-ID THTR 191)**Showcase**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: Audition

A study of the actor's process in the development of a character culminating in live staged performances. Auditions for all roles are required. May be repeated. CSU/UC

Theatre Arts 152 (C-ID THTR 191)**Tour Ensemble**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Prerequisite: Audition/Interview.

Acting ensemble providing performance experience for advanced students. Audition required. May be repeated. CSU/UC

Theatre Arts 153**Introduction to Directing**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory 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

Theatre Arts 154 (C-ID THTR 191)**Performance Ensemble**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Prerequisite: Audition

A study of the standards and expectations for an actor in auditions, casting, rehearsal and performance in a departmental production. All students will be cast in one-act plays for public presentation. May be repeated. CSU/UC

Theatre Arts 155 (C-ID THTR 191)**Children's Theatre Ensemble**

Unit(s): 2.0

Class Hours: 16 Lecture, 70 Laboratory total.

Prerequisite: Audition

Intensive rehearsal and performance experience leading to an extended-run Children's Theatre production utilizing playscripts written for young audiences. May be repeated. CSU/UC

Theatre Arts 156**Readers' Theatre Workshop**

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

A study of acting involving the development of techniques, styles, and theories specific to performing with script in hand. Provides the student with extensive practical rehearsal experience with varied characters, leading to workshop production. CSU/UC

Theatre Arts 165**Introduction to Intelligent Lighting**

Unit(s): 1.5

Class Hours: 24 Lecture total.

Recommended Preparation: Concurrent enrollment in Theatre Arts 165L

The fundamental study of intelligent lighting equipment to include a variety of state of the art lighting fixtures and programming/control consoles. Basic skills in control and programming are emphasized. CSU

Theatre Arts 165L**Fundamentals of Programming for Intelligent****Lighting Lab**

Unit(s): 0.5

Class Hours: 24 Laboratory total.

Recommended Preparation: Concurrent enrollment in Theatre Arts 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

Theatre Arts 166**Intermediate Programming**

Unit(s): 1.0

Class Hours: 16 Lecture total.

Corequisite: Corequisite Theatre Arts 166L.

Further development of the control and programming skills used in the entertainment lighting industry. Multiple control consoles will be introduced. CSU

Theatre Arts 166L**Intermediate Programming Lab**

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Corequisite: Concurrent enrollment in Theatre Arts 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

**Theatre Arts 167****Setup for Intelligent Lighting**

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory 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

Theatre Arts 168A**Computer Applications for Entertainment Lighting**

Unit(s): 2.5

Class Hours: 32 Lecture, 32 Laboratory total.

Study of varied software apps that assist in the creation, management and visualization of entertainment lighting projects. CSU

Theatre Arts 170**Entertainment Technology Internship**

Unit(s): 1.0

Class Hours: 8 Lecture, 42 Laboratory total.

Supervised field work in one or more of areas 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

Theatre Arts 198**Topics**

Unit(s): 0.5

Class Hours: 8 Lecture total.

Topics of special interest offered to meet the needs of theatre arts students. Open Entry/Open Exit. CSU

Theatre Arts 250**Advanced Theatre Production**

Unit(s): 2.0

Class Hours: 16 Lecture, 96 Laboratory total.

Prerequisite: Audition/Interview.

Practical experience at an advanced level in performance production or technical production culminating in a series of public performances. Students desiring an acting role must audition and students desiring a technical role must be interviewed. May be repeated. CSU/UC

Theatre Arts 255**Motion Picture Performance Production**

Unit(s): 3.0

Class Hours: 16 Lecture, 96 Laboratory total.

Recommended Preparation: Theatre Arts 113 and Theatre Arts 114 with minimum grade of C. Prerequisite: Audition/Interview

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

Theatre Arts 256**Intermediate Motion Picture Performance Production**

Unit(s): 3.0

Class Hours: 16 Lecture, 96 Laboratory total.

Prerequisite: Theatre Arts 255 with minimum grade of C.

Intermediate level 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

VIETNAMESE (VIET)**Vietnamese 101****Elementary Vietnamese I**

Unit(s): 5.0

Class Hours: 80 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

Vietnamese 102**Elementary Vietnamese II**

Unit(s): 5.0

Class Hours: 80 Lecture total.

Prerequisite: Vietnamese 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

Vietnamese 198**Topics in Vietnamese**

Unit(s): 0.5 - 3.0

Class Hours: 8 - 48 Lecture total.

A specialized course on topics related to current needs of students. CSU

WELDING (WELD)**Welding 108****Oxyacetylene-Arc Welding****Formerly: Welding 008, Oxyacetylene-Arc Welding**

Unit(s): 3.0

Class Hours: 16 Lecture, 96 Laboratory total.

Technical knowledge and basic skills needed for occupational oxyacetylene and arc welding processes and applications. Students must furnish safety equipment. (Same as Automotive Technology 108 and Diesel 108.) CSU

Welding 125A**Intermediate Arc Welding Level I****Formerly: Welding 025A, Intermediate Arc Welding Level I**

Unit(s): 3.0

Class Hours: 16 Lecture, 96 Laboratory total.

Prerequisite: Welding 108 with a minimum grade of C.

This is a course designed to improve the student's previously acquired arc welding skills and prepare the student to pass the welding certification test. Emphasis is placed on welding in the vertical and overhead positions and the preparation of the test plates (1" steel), using the shielded metal arc welding process E-7018 (SMAW). CSU

Welding 125B**Intermediate Arc Welding Level II****Formerly: Welding 025B, Intermediate Arc Welding Level II**

Unit(s): 3.0

Class Hours: 16 Lecture, 96 Laboratory total.

Prerequisite: Welding 108 and Welding 125A with a minimum grade of C or satisfactory completion of proficiency exam in arc welding skills administered by SAC Welding Instructor.

This is a course designed to improve the student's prior acquired arc welding skills and prepare the student to pass the welding certification test. Student is introduced to the preparation of the 1" plate. This course will introduce the students to the Licensing Class D1.1. rules and regulations from the Department of Building and Safety with the city of Los Angeles. Emphasis is placed on welding in the vertical and overhead positions and the preparation of the test plates (1" steel), using the shielded metal arc welding process E-7018 (SMAW). CSU

Welding 129A**Advanced Arc Welding Level I****Formerly: Welding 029A, Advanced Arc Welding Level I**

Unit(s): 3.0

Class Hours: 16 Lecture, 96 Laboratory total.

Prerequisite: Welding 108 with a minimum grade of C or satisfactory completion of proficiency exam in arc welding skills.

This course is designed to help students enhance previously acquired arc welding skills and prepare them to pass the welding certification test. Provides advanced manipulative skills and technical knowledge needed to pass a 1" plate guided bended test required for structural steel certification. CSU

**Welding 129B****Advanced Arc Welding Level II****Formerly: Welding 029B, Advanced Arc Welding Level II**

Unit(s): 3.0

Class Hours: 16 Lecture, 96 Laboratory total.
Prerequisite: Welding 129A with a minimum grade of C or satisfactory completion of proficiency exam in arc welding skills administered by SAC Welding Instructor.

This is a course designed to advance the student's previously acquired arc welding skills and prepare the student to pass the welding certification test. Emphasis is placed on welding in the vertical and overhead positions and the preparation of the test plates (1" steel), using the shielded metal arc welding process (SMAW) E-7018 according to the American Welding Society rules and regulations D1.1 Code Book. CSU

Welding 129C**Advanced Arc Welding Level III****Formerly: Welding 029C, Advanced Arc Welding Level III**

Unit(s): 3.0

Class Hours: 16 Lecture, 96 Laboratory total.
Prerequisite: Welding 129B with a minimum grade of C or satisfactory completion of proficiency exam in arc welding skills administered by SAC Welding Instructor.

This is a course designed to improve and master the student's previously acquired arc welding skills to an advanced level and prepare the student to pass the welding certification test. Emphasis is placed on welding in the vertical and overhead positions and the preparation of the test plates (1" steel), using the shielded metal arc welding process E-7018 according to the American Welding Society rules and regulations. Students will take the D1.1 certification test at this level. CSU

Welding 129D**Advanced Arc Welding Level IV****Formerly: Welding 029D, Advanced Arc Welding Level IV**

Unit(s): 3.0

Class Hours: 16 Lecture, 96 Laboratory total.
Prerequisite: Welding 129C with a minimum grade of C or satisfactory completion of proficiency exam in arc welding skills administered by SAC Welding Instructor.

This course provides level one instruction on the principles, equipment, welding techniques, mode of operations, and safety for (FCAW) wire flux cored arc welding used for structural steel. It is also designed to improve the student's formerly acquired arc welding skills and prepare the student to pass the welding certification test D1.1. Emphasis is placed on welding in the vertical and overhead positions and the preparation of the test plates (1" steel), using FCAW 2/32 wire (flux cored arc welding). CSU

Welding 139A**Inert Gas Welding Level I****Formerly: Welding 039A, Inert Gas Welding Level I**

Unit(s): 3.0

Class Hours: 16 Lecture, 96 Laboratory total.
Prerequisite: Welding 108 with a minimum grade of C or satisfactory completion of proficiency exam in arc welding skills.

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

Welding 139B**Inert Gas Welding Level II****Formerly: Welding 039B, Inert Gas Welding Level II**

Unit(s): 3.0

Class Hours: 16 Lecture, 96 Laboratory total.
Prerequisite: Welding 139A with a minimum grade of C or satisfactory completion of proficiency exam in inert gas welding skills administered by the SAC Welding Instructor.

This course is intended to further the welding skills of the student in gas tungsten arc welding (GTAW) and metal inert gas (MIG) process. Special emphasis is placed on the horizontal position of aluminum, mild steel and stainless steel. CSU

Welding 139C**Inert Gas Welding Level III****Formerly: Welding 039C, Inert Gas Welding Level III**

Unit(s): 3.0

Class Hours: 16 Lecture, 96 Laboratory total.
Prerequisite: Welding 139B with a minimum grade of C or satisfactory completion of proficiency exam in inert gas welding skills administered by the SAC Welding Instructor.

This is an advanced welding course using the gas tungsten arc welding (GTAW) process. This course is intended to give the students the skills necessary to pass the welding certification test in GTAW and MIG welding processes. The student is required to master the horizontal and vertical-up welding positions. CSU

Welding 140A**Welding Certification Training Level I****Formerly: Welding 040A, Welding Certification Training Level I**

Unit(s): 3.0

Class Hours: 16 Lecture, 96 Laboratory total.
Prerequisite: Welding 108 with a minimum grade of C or satisfactory completion of proficiency exam in arc welding skills.

This is an advanced course that will provide lecture and hands-on practice in welding in multiple areas of certification using shielded metal arc welding (SMAW) as well as in flux cored arc welding (FCAW). The student will focus on welding in the vertical and overhead position and the preparation of test plates. CSU

Welding 140B**Welding Certification Training Level II****Formerly: Welding 040B, Welding Certification Training Level II**

Unit(s): 3.0

Class Hours: 16 Lecture, 96 Laboratory total.
Prerequisite: Welding 140A with a minimum grade of C or satisfactory completion of proficiency exam in arc welding skills administered by SAC Welding Instructor.

This is an advanced course that will provide lecture and hands-on practice in welding in multiple areas of certification using shielded metal arc welding (SMAW) as well as in flux cored arc welding (FCAW) in the vertical and overhead positions. The student will focus on welding with the SMAW, FCAW and pipe in the 1G and 2G positions using E6010 electrode. CSU

Welding 140C**Welding Certification Training Level III****Formerly: Welding 040C, Welding Certification Training Level III**

Unit(s): 3.0

Class Hours: 16 Lecture, 96 Laboratory total.
Prerequisite: Welding 140B with a minimum grade of C or satisfactory completion of proficiency exam in arc welding skills administered by SAC Welding Instructor.

This is an advanced course that will provide lecture and hands-on practice in welding in multiple areas of certification using shielded metal arc welding (SMAW) as well as in flux cored arc welding (FCAW) in the vertical and overhead positions. The student will focus on welding with the SMAW, FCAW and pipe in the 5G and 6G positions using E6010 electrode. CSU

Welding 141A**Welding Certification Exam Preparation Level I****Formerly: Welding 041A, Welding Certification Exam Preparation Level I**

Unit(s): 3.0

Class Hours: 48 Lecture total.
Prerequisite: Welding 108 with a minimum grade of C or satisfactory completion of proficiency exam in arc welding skills administered by SAC Welding Instructor.

This practical course is for advanced welding students. Instruction will cover design, prequalified base/filler material, procedure/welder qualifications, fabrication essentials, and testing as specified by American Welding Society (AWS) D1.1. Structural Code specifications leading to Los Angeles City or AWS welding certifications. CSU

**Welding 141B****Welding Certification Exam Preparation Level II**

Formerly: Welding 041B, Welding Certification Exam Preparation Level II
Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Welding 141A with a minimum grade of C.

This course is for advanced welding students. Instructor will cover prequalified base/filler material, procedure/welder qualification and testing as specified by American Welding Society (AWS). D1.1 Structural Code specifications leads to Los Angeles City or AWS welding certifications. CSU

Welding 153A**Math/Blue Print Reading for Welders**

Formerly: Welding 053, Math/Blue Print Reading for Welders

Unit(s): 3.0

Class Hours: 48 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

Welding 153B**Math/Blue Print Reading for Welders**

Unit(s): 3.0

Class Hours: 48 Lecture total.

This is an advanced course designed to allow students to function at a higher math and blue print reading level and their applications for welders related to the welding industry. Emphasis will be placed on the common fractions, decimal fractions, perimeter of squares, areas of triangle, volumes, circumferences of circles and perimeter. The student will be able to read and interpret shop and field drawings, and prints related to the welding industry. CSU

Welding 154A**Beginning Pipe Fundamentals**

Formerly: Welding 054A, Beginning Pipe Fundamentals

Unit(s): 3.0

Class Hours: 16 Lecture, 96 Laboratory total.

Prerequisite: Welding 125A with a minimum grade of C.

The pipe welding industry requires a higher skilled welder. This course consists of 112 hours of training in safety, preparation, welding, terminology, blueprints, and codes. Emphasis will be on open root groove welds on plate using the Shielded Metal Arc Welding Process using E6010 and E7018 electrodes.

Students will learn pipe terminology and proper practices used in different industries. CSU

Welding 154B**Intermediate Pipe Welding**

Formerly: Welding 054B, Intermediate Pipe Welding

Unit(s): 3.0

Class Hours: 16 Lecture, 96 Laboratory total.

Prerequisite: Welding 154A with a minimum grade of C.

The pipe welding industry requires a highly skilled welder. This course consists of 112 hours of training in safety, preparation, welding, terminology, blueprints, and codes. Emphasis will be on open root groove welds on pipe using the Shielded Metal Arc Welding Process, using E6010 and E7018 electrodes.

Students will learn pipe terminology and proper practices used in different industries. Students will be introduced to Orbital Welding Technology. CSU

Welding 154C**Advanced Pipe Welding**

Formerly: Welding 054C, Advanced Pipe Welding

Unit(s): 3.0

Class Hours: 16 Lecture, 96 Laboratory total.

Prerequisite: Welding 154B with a minimum grade of C.

The pipe welding industry requires a highly skilled welder. This course consists of 112 hours of training in safety, preparation, welding, terminology, blueprints, and codes. Emphasis will be on open root groove welds on pipe using the Shielded Metal Arc Welding Process using E6010 and E7018 electrodes.

Students will learn pipe terminology and proper practices used in different industries. Students will set up and operate the Orbital Welding machine. CSU

Welding 155A**Beginning Metal Fabrication**

Unit(s): 3.0

Class Hours: 16 Lecture, 96 Laboratory total.

Prerequisite: Welding 125A with a minimum grade of C or satisfactory completion of proficiency exam in arc welding skills.

A fabricator in the welding industry requires a highly skilled welder/fitter. This course consists of 112 hours of training in safety, preparation, welding, terminology, blueprints, and codes. Emphasis will be focusing on proper operation of shop machinery, welding, fit-up, metal shapes, and various techniques of building and assembly. CSU

Welding 155B**Intermediate Metal Fabrication**

Unit(s): 3.0

Class Hours: 16 Lecture, 96 Laboratory total.

Prerequisite: Welding 155A with a minimum grade of C or satisfactory completion of proficiency exam in arc welding skills.

This course consists of 112 hours of training in safety, preparation, welding, terminology, blueprints, and codes. Emphasis will be focusing on proper operation of shop machinery, welding, fit-up, metal shapes, and various techniques of building and assembly. Such as aerospace, military, or a special tool that could assist keeping tight tolerances required by an engineer. Students will learn fabrication terminology and proper practices used in different industries. This course is designed to adapt and upgrade skills to industry standards and develop fabrication skills to supplement and expand welding skills. CSU

Welding 156A**Beginning Robotic Welding**

Formerly: Welding 056A, Beginning Robotic Welding

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: Welding 108 with a minimum grade of C.

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 Engineering 156A.) CSU

**Welding 156B****Intermediate Robotic Welding**

Formerly: Welding 156B, Intermediate Robotic Welding

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: Welding 156A and Welding 157A with a minimum grade of C.

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 Engineering 156B.) CSU

Welding 156C**Advanced Robotic Welding**

Formerly: Welding 056C, Advanced Robotic Welding

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: Welding 156B with a minimum grade of C.

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 Engineering 156C.) CSU

Welding 157A**Basic Robotic Programming**

Unit(s): 3.0

Class Hours: 16 Lecture, 96 Laboratory total.

Prerequisite: Welding 108 with a minimum grade of C.

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 Engineering 157A.) CSU

Welding 157B**Intermediate Robotic Programming**

Unit(s): 3.0

Class Hours: 16 Lecture, 96 Laboratory total.

Prerequisite: Welding 156A or Engineering 156A and Welding 157A or Engineering 157A with a minimum grade of C.

Concurrent enrollment in Welding 156B or Engineering 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 Engineering 157B.) CSU

Welding 157C**Advanced Robotic Programming Welding**

Unit(s): 3.0

Class Hours: 16 Lecture, 96 Laboratory total.

Prerequisite: Welding 156B or Engineering 156B and Welding 157B or Engineering 157B with a minimum grade of C.

Concurrent enrollment in Welding 156C or Engineering 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. CSU

WOMEN'S STUDIES (WMNS)**Women's Studies 101****Introduction to Women's Studies**

Unit(s): 3.0

Class Hours: 48 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

Women's Studies 102**Women in America: Work, Family, Self**

Unit(s): 3.0

Class Hours: 48 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





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. Placement testing is provided for English, English Language Development, mathematics, reading and chemistry to help determine present skill level so students can select appropriate classes with the help of a counselor. Career assessment is offered on a counselor referral basis or through counseling classes. Instructor make-up and accommodated exams are provided when classes are in session. See current class schedule for the calendar of assessment services. For more information about assessment services, call 714-564-6148.

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: www.sac.edu/StudentServices/EOPS/CalWORKS/, drop by VL-110 (The Village), or call 714-564-6232.

CAREER DEVELOPMENT/CAREER TECHNICAL EDUCATION (CTE) STUDENT SUCCESS CENTER

The Career Development/Career Technical Education (CTE) Student Success Center is a one-stop office which provides CTE students with academic counseling, support and resources to guide them to program completion, and preparation for employment.

Career services include access to resources on careers and training programs, pre-internships and volunteer service learning opportunities, as well as employment preparation workshops and job placement services. Individuals and classes are welcome to utilize the Center to explore career information.

COLLEGE ADVANCEMENT/ FOUNDATION

The Santa Ana College Foundation is a 501(c)3 non-profit organization serving a diverse college community and meeting the needs of the Santa Ana and Garden Grove service areas. The board of directors of the college foundation represents a broad-based group of community volunteers, corporate partners, and alumni. Its mission of ensuring that no student is denied educational opportunities due to financial constraint is possible through the generous donations of alumni and friends, corporate and community partners. The Foundation's focus is to maintain, expand, and enhance the educational opportunities of Santa Ana College by linking community organizations, businesses, funding sources, alumni and staff, thus preserving our near century of "A History of Success, A Future of Promise."

The Santa Ana College Foundation leads and supports fundraising activities, campaigns, and initiatives for the college. 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 www.sac.edu/foundation.

COMMUNITY SERVICES

Community Services 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, on-line classes, and travel tours.

For additional information call the Community Services Program at 714-564-6594 or visit us at www.sac.edu/cms.

CONTINUING EDUCATION PROGRAM

Continuing Education is responsible for providing non-credit college courses and programs to the students of the district. Beyond providing the means for an adult to take classes for a high school diploma, Continuing Education delivers pre-collegiate education in the areas of basic academic skills and English as a Second Language. It also serves the needs of groups such as the disabled and parents with special needs. A full range of personal, career and academic counseling services is available to students enrolled in continuing education classes located at a number of educational centers throughout the district. Courses are offered mornings, afternoons, evenings, and weekends to allow accessibility to match varying student needs. Specific information regarding admission and registration policies, services available and description of the courses offered can be found in the Continuing Education section of this catalog.

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 and Centennial 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 www.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 technical education can access counseling through specific programs in these areas. For a complete listing of centers and programs, visit our Counseling page at www.sac.edu/StudentServices/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 (www.sac.edu/rsccdasp/online_counseling). 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 assists students with disabilities in their pursuit of a community college education.

Students with disabilities seeking admission to Santa Ana College meets the following levels of independence:

- The ability to navigate campus facilities independently or with the assistance of a personal 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 semester's work.

New students must sign an authorization at the time of DSPS enrollment (intake), which allows Santa Ana College, in the absence of a personal attendant, to seek emergency medical treatment and/or ambulance services in the event it is deemed necessary by personnel. (All costs associated with such medical treatment/transportation is the sole responsibility of the student.)

Verification of disability from a qualified professional must be provided to the DSPS office to qualify for any of the following:

1. Use of special equipment (i.e., digital recorders and adaptive software)
2. Alternate media production
3. On campus mobility assistance
4. Priority registration
5. Sign Language Interpreters
6. Real-time captioning/CART services
7. Test taking accommodations
8. Note taking services
9. Case Management
10. Preferential seating
11. Liaison/Referral with community agencies

Architectural barriers are being identified and staff is available to help students navigate the campus. Please contact our office or campus safety for on campus transportation assistance. For additional information visit <http://sac.edu/StudentServices/DSPS>, SAC VL-204, call 714-564-6295.

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 14.

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

HEALTH AND WELLNESS CENTER

The Health and Wellness Center personnel promotes the physical and emotional health for every student so they can succeed in school and life. Quality clinical services, innovative health, wellness promotion activities, referrals, and outside referrals to low-cost providers in the area are provided in a caring, confidential, cost effective, and convenient manner for students. Quality clinical services, innovative health, wellness promotion activities, referrals, and outside referrals to low-cost providers in the area are provided in a caring, confidential, cost effective, and convenient manner for Santa Ana College students.

Eligibility

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

Cost

Students pay a health fee every semester 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.

Health Professionals

Registered nurses, licensed psychologists, health education specialists, and our physi-



cian are available by appointment or on a walk-in basis during service hours of the Student Health & Wellness Center. Services include:

- 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 students' parent must sign permission for treatment 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 <https://www.sac.edu/Student-Services/HealthCenter/>, SAC VL-211, 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 AWARDS

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.

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.

Alpha Gamma Sigma. Alpha Gamma Sigma is the statewide California Junior 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. Credit/no credit units are not considered in the twelve-unit requirement. A student who has completed 60 or more units with an overall GPA of 3.5 or better or 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.

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 18,000 full-text periodicals and 11,000 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: www.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 www.sac.edu/MathCenter.

PUBLIC AFFAIRS

Information and publicity regarding district programs and activities are disseminated to the news media and to the community through the Office of Public Affairs/Governmental Relations located on the fourth floor of the Rancho Santiago Community College District Office.

SCHOLARSHIPS

Scholarships are a critical component to student success. Many community patrons and organizations establish scholarship awards as a means of expressing confidence in Santa Ana College and its students. These awards range in amounts from \$1,000 to \$10,000.

Eligibility varies according to the individual scholarship. There are scholarships available for students taking classes at Santa Ana College, those transferring to four-year colleges, and those entering college for the first time upon graduation from high school.

Listings and requirements for the various scholarships can be found online at www.sac.edu/scholarship. On-line applications must be submitted for screening in February, and student recipients will be recognized at an annual award ceremony in May.

For more information and assistance, please contact the Scholarship Program at 714-564-6478 or visit the office located in Building "S", Room 201.

STUDENT ACTIVITIES

Student Activities are planned with sufficient variety and frequency to provide an opportunity for all students to participate. Students may develop additional co-curricular activities when there is sufficient interest to justify them. 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 only at www.sac.edu under the Student Life page.

el Don - 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, or call Student Activities, Santa Ana College at 714-564-6214.

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. The ASG provides multicultural events, health awareness events, holiday and themed events, BBQ's, panel discussions, and services for the community. The Inter-Club Council sponsors special events designed for club involvement. The Student Activities Office, in addition to coordinating events, provides information regarding student life, clubs, and organizations. There are an assortment of opportunities, services, discounts, programs and contests. For more information regarding Student Activities, Student Government and Inter-Club Council, contact the Coordinator of Student Activities at Santa Ana College 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. 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.

UNIVERSITY TRANSFER CENTER

The University Transfer Center provides information and assistance to students who are preparing to transfer to four-year colleges and universities. Representatives from universities are available to meet with students individually and provide information about programs, requirements and procedures. The Center also maintains a complete resource library containing college catalogs. In addition, the Center sponsors field trips to selected universities throughout California. For more information, call 714-564-6165.

MESA

MESA (Math, Engineering, and Science Achievement) is an academic program designed to support educationally and economically disadvantaged transfer students preparing for professions in the Science, Technology, Engineering and Math (STEM) fields. Services include tutoring, advisement, academic success workshops, scholarships, internships, and connection to professionals.

Puente

The Puente Program provides English instruction (English 061 & English 101), academic counseling, a variety of out of class activities, and mentoring to assist and prepare students for transfer.

SAC Adelante!

This program offers a specialized orientation, transfer resources and services to recent SAUSD graduates, (2011 to date) and provides transfer guarantee admission to UCI with a 2.80 G.P.A. or CSUF with a 3.0 G.P.A.

Teacher Ed

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



U-Link

This program is open to all students, particularly students in the Santa Ana Unified School District. U-Link is a transfer program that has a guaranteed admission from SAC to UCI.

VETERANS RESOURCE CENTER

The Veterans Resource Center is dedicated to supporting veterans as they transition from military service to college and civilian life. The VRC provides the following services: Assistance with accessing VA Education Benefits through the Veterans Affairs Office (VAO), specialized orientations and workshops, college preparation through the Veterans Upward Bound program (VUB), academic counseling, a dedicated space to study and use computers, referrals to on and off campus veterans programs and resources, 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 www.sac.edu/vrc, or come to our office at SAC in the west side of the Planetarium building, M-120.

VA Education Benefits

Veterans and eligible persons who wish to utilize their education benefits must notify the VAO 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 Veteran Affairs Office as this may cause overpayments. Veterans and eligible dependents/spouse who are on academic probation [below 2.00 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 2.00 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 Muskogee, Oklahoma, Phone 1 800-827-1000 or 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: www.sac.edu/vao.

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.

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.

VETERANS UPWARD BOUND (VUB) PROGRAM

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.



YESS PROGRAM

The Youth Empowerment Strategies for Success (YESS) Program is a Foster Youth Success Initiative (FYSI) which provides support to qualified Santa Ana College students who have emancipated from the foster care system, were in foster care after their 13th birthday, and who are currently between the ages of 16 and 24. The program focuses on the following services to qualified former foster youth students: academic support workshops, bus passes or parking permits (when available), specialized counseling services, career guidance, financial aid information, independent living programs, study skills courses, and tutoring services. The YESS Program is located in VL-205.



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. Gainful Employment disclosures.

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 file an "Academic Misconduct Incident Report" form and distribute the form to the appropriate offices listed.

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 Dean of Student Affairs 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 of which 15 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 G.P.A. must also be a 3.5 or better.

ACADEMIC RENEWAL

Inasmuch as past performance does not always reflect accurately a student's actual ability, Santa Ana College has established a policy of academic renewal.

- To be eligible, the student must have completed at least 15 units with a 3.0 G.P.A or 24 units with a 2.0 G.P.A. or higher in sessions subsequent to the substandard work. All lower division units from all colleges attended will be counted from the semester immediately following the substandard work. These semesters cannot contain any substandard grades.
- 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 all institutions attended may be disregarded in the computation of the grade point average.
- After an associate degree, certificate or general education certification is posted, academic renewal without course repetition is not accepted.
- 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.
- Academic Renewal Without Course Repetition may be granted only once by either Santa Ana College or Santiago Canyon College, but not both.

The petition is submitted to Admissions and Records of the student's home campus (SAC or SCC). Please consult with a college counselor about any questions regarding Academic Renewal eligibility.

* For courses designated as non-repeatable (Title 5 § 55041), only the first two substandard grades may be excluded in computing the student's grade point average (Title 5 § 55042(c)).

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 cleared through the Students Activities Office, in the Johnson Campus Center at Santa Ana College.
3. Posting or distribution of publicity for student activities on campus must be authorized by the Associated Students.
4. Smoking is prohibited on campus except in designated areas. This is an alcohol free and drug free campus. 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 office of the Associate Dean, Student Development, at Santa Ana College, in the Johnson Campus Center, phone 714-564-6210 or 714-564-6211.
5. Please refer to Standards of Student Conduct (page 315) 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 three attempts, the student can no longer register for the course within this college district. After two attempts, the student loses the ability to register for the class online. A repeat form must be completed in Admissions and reviewed by an Admissions Office administrator.

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. After three enrollments, the class must be completed outside the Rancho Santiago Community College District. 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.

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 Significant Lapse of Time 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 statute 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.

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 your 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

- 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.
- The list of courses which may be challenged for credit by examination is avail-

able in the division offices at Santa Ana College.

- 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.**
- 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.
- 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.
- 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.
- 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.
- 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.
- 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:

- 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.
- 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.
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.
- 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 consent.

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.]

- 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 \$1.00 per page.

PASS/NO PASS

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

- 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, or as designated in all Apprenticeship programs, Criminal Justice, Fire Technology, Human Development, Pharmacy Technology, Registered Nursing, Women's Studies, Work Experience, and through credit by examination or assessment.
- 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 prefer that students have letter grades in English, mathematics, speech, and critical thinking courses. Courses that meet major requirements 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.
- Except as in item number one above, a maximum of 6 Pass/No Pass units may be carried during any one semester.
- A maximum of 12 Pass/No Pass units is allowed for any degree program. This does not include units taken under credit by examination or assessment,

or in Human Development, Pharmacy Technology, Registered Nursing, Women's Studies and Work Experience.

- 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.
- 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.

Military Withdrawals

See page 307

EXTENUATING CIRCUMSTANCES

Extenuating circumstances are verified cases of accidents, serious illnesses, or other circumstances clearly beyond the control of the student. If such circumstances are verified by the Admissions and Records Office, with consultation of the appropriate faculty, a withdrawal may be authorized and a "W" recorded on the transcript.

Students should file petitions as soon as possible within the semester in which the extenuating circumstance occurred. Also, petitions will NOT be accepted for consideration later than one year following the semester in which the extenuating circumstance occurred.

A student who has attempted a course two times and has received grades of D, F, NP, or W must meet with a counselor and complete a Course Repetition Request before registering a third time.

A student who is a member of an active or reserve United States military service and who receives orders compelling a withdrawal from courses will be granted a "Military Withdrawal" upon verification of

such orders. The "Military Withdrawal" can be granted at any time and will not count toward probation or dismissal calculations. 8:00 a.m. to 12:00 noon on Friday.

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, "W's," "MW's," "IP's" and "I's" 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)
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 (www.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, thereafter, a \$3.00 charge will be assessed for each additional transcript. A \$8.00 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.

****REVISED 12.05.17 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:

<https://www.rscsd.edu/Trustees/Pages/AR-3435.aspx>

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 at: www.cccco.edu/ChancellorsOffice/Divisions/Legal/Discrimination/tabid/294/Default.aspx.

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 other than a discrimination complaint. 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 thirty (30) days following the event which prompted the grievance. If for any reason the student is uncomfortable conferring with the person who took the action, they may proceed immediately to step two. The Associate Dean of Student Development will assist the student in arranging the 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 Associate Dean of Student Development 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 then select a Student Grievance Panel*. The administrator involved 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 rscsd.edu/Trustees/Pages/AR-3435.aspx

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.

**** END REVISION**

HONORS PROGRAM AND HONORS COURSES

The Honors Transfer Program at Santa Ana College 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 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 minimal "priority consideration for admission," and in some instances guaranteed admission with additional GPA requirements. These transfer institutions include California State University Fullerton, Chapman University, La Sierra University, Mills College, Pepperdine University, Pitzer College, Pomona College, Occidental College, San Diego State University, UCI, UCLA, and Whitman College in Washington. Changes are noticed on the HTCCA.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.
- One of the following: completion of English 061 or English for Multilingual Students 112 or American College English 116 with a minimum grade of "C"; qualifying profile for English 101 from English placement process; completion of English 101 or its requirement with a minimum grade of "C".
- Two academic references to be listed on the application.

The philosophy of honors studies at Santa Ana College is that 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 any the following guidelines:

- Students who have a minimum cumulative 3.0 GPA, and
- Students meeting 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 have been in the HTP for at least one semester may also earn up to eleven units and no

more than three contracts through honors project contracts or through the STEM major contract. Contracts will earn honors credit only when both the work for the contract and the regular coursework in the UC transferable course(s) 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, 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. For more information, contact the Honors Transfer Program Coordinator, Kathy Patterson (714-564-6528) at Santa Ana College.

INDEPENDENT STUDY

Independent Study allows students to pursue projects under faculty advisement and supervision. The projects may be directed field experience, research, or development of skills and competencies. Independent Study credit may be earned in any discipline. Transfer credit is designated as a 199 (e.g., Math 199; English 199)

Independent Study projects are normally for one unit of credit and require a minimum of 48 total hours of directed work per unit of credit. Within the 48 total hour minimum the instructor meets with each student on a weekly basis for at least one hour or a minimum of 16 hours and instructor-directed 32 hours of outside assignments for each one-unit project. The proposed project must be approved by the supervising instructor, the Dean and the Vice President, Academic Affairs. Recommended projects of more than one unit must have prior approval from the Vice President, Academic Affairs. Independent Study is offered on a Pass/No Pass basis.

To be eligible for Independent Study, a student must be concurrently enrolled in at least one other credit class at either Santa Ana College or Santiago Canyon College. Independent Study courses are not offered during summer or intersession. The student must show evidence of competence in the academic major or 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 regula-

tions 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 CUM 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 & BOG Fee Waiver 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 reapplying 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, 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. Expression which is libelous, slanderous, obscene 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. Engaging in lewd, indecent, or obscene behavior on district property or at any district-sponsored function.
- O. 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.
- P. 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 type-written class notes, except as permitted by any district policy or administrative regulation.
- Q. Engaging in harassing or discriminatory behavior based on race, sex (i.e., gender), religion, age, national origin, disability, sexual orientation or any other status protected by law.
- R. Continuous disruptive behavior or willful disobedience, habitual profanity or vulgarity, open and persistent abuse of college personnel, or open and persistent defiance of the authority of college personnel, which includes physical as well as verbal abuse, including the use of racial epithets and hate speech.
- S. Disruptive written or verbal communication, vulgarity, open and persistent abuse of other students which include verbal abuse, racial epithets and hate speech.
- T. Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the Board of Trustees.
- U. 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:
- 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.
 - 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.
 - Using or causing to be used computer services without permission.
 - 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.
 - Introducing any computer contaminant or virus into any computer, computer system, or computer network belonging to the college or District.
 - Sending any message using any computer system or network without authorization or sending any message in the name of another person or entity.
 - Using any account or password without authorization.
 - Allowing or causing an account number or password to be used by any other person without authorization.
 - 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.
 - Use of systems or networks for personal commercial purposes.
 - "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.
- V. Any act constituting good cause for suspension or expulsion, or violation of district policies or campus regulations.

For additional information, please refer to the Student Handbook online at www.sac.edu under the Student Life page.

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

- Student shall meet with the instructor to discuss the grade.
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.
- Forms for the written appeal may be found in any divisional Dean's office or the Office of the Chief Student Services Officer of the campus.
- The student may be requested to set-up an appointment with the appropriate Division Dean to discuss the written grievance.
- The appropriate Division Dean will review the allegations and consult with the instructor.
- The Division Dean will review the issue and will notify the student and instructor in writing of his/her decision.
- 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

Information concerning registered sex offenders can be obtained from the Santa Ana Police Department, 3rd Floor Lobby, 60 Civic Center Plaza, Santa Ana, on Mondays through Fridays, from 9am to 12pm and from 1-4pm; and from the Orange Police Department, Youth Services Bureau, 1107 North Batavia Street, Orange, by calling 714-744-7311 for an appointment.

“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 at the Orange Police Department if attending Santiago Canyon College.”

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, 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 will 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).





CONTINUING EDUCATION





SANTA ANA COLLEGE / SANTIAGO CANYON COLLEGE CONTINUING EDUCATION DIVISION INSTRUCTIONAL CALENDAR

CONTINUING EDUCATION DIVISION INSTRUCTIONAL CALENDAR 2017-2018

FALL SEMESTER 2017

August 21–25	Faculty projects
August 28	INSTRUCTION BEGINS
September 4	Labor Day – holiday
November 10	Veterans Day – holiday
November 23–25	Thanksgiving – holiday
December 21	INSTRUCTION ENDS
December 22–28	Winter recess

SPRING SEMESTER 2018

January 3–5	Faculty projects
January 8	INSTRUCTION BEGINS
January 15	Martin Luther King’s Birthday – holiday
February 16	Lincoln’s Birthday – holiday
February 19	President’s Day – holiday
March 30	Cesar Chavez Day (observed)
April 2–7	SCE Spring recess*
May 24	OEC Commencement
May 24	INSTRUCTION ENDS
May 25	CEC Commencement
May 28	Memorial Day – Holiday

SUMMER SESSION 2018

May 29	INSTRUCTION BEGINS
July 4	Independence Day
August 2	INSTRUCTION ENDS

* could change to correspond with unified school district

JUNE • 2017

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OCTOBER • 2017

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JUNE • 2018

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JULY • 2018

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SCHOOL OF CONTINUING EDUCATION CENTENNIAL EDUCATION CENTER

**Santa Ana College School of Continuing Education Office
Centennial Education Center
2900 West Edinger Avenue
Santa Ana, CA 92704
714-241-5700**

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, vocational ESL, 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 Community Learning Center 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 four exit exams. Once the ABE class has been successfully completed and a certificate awarded, the student is eligible to enter the Adult High School Subjects Diploma Program/GED program 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 at CEC. 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 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 in reading, math, spelling, visual and auditory perception, concentration, memory, and speaking. The program provides complete learning disabilities assessment after which an individualized educational plan is written and instruction leading to remediation is provided. Support services are provided, or recommended, as needed.

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

GOALS AND PROGRAM OBJECTIVES

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

1. Teaches the basic academic and life skills necessary for success in today's world.
2. 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

1. Enables students to obtain a high school diploma.
2. Provides coursework that enables students to meet proficiency requirements.
3. Encourages high school students to pursue higher education goals.

GED Test Preparation

1. 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. Develop 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.

Parent Education

1. Provides a variety of learning opportunities and instruction for prospective parents regarding the intellectual, physical, and emotional components of the birth process.
2. Provides theory, methods, and practical applications for rearing children.
3. 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.

Vocational 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 AND STUDENT SERVICES

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 Technical Education

- **Vocational Training Programs**

Provides employment preparation focusing on general workforce preparation skills and specific vocational training including independent laboratory instruction and technology training.

English as a Second Language

Instruction in English from beginning to intermediate levels is offered at various locations throughout the district for non-English and limited English speaking adults. Specialty classes in pronunciation, conversation, vocational ESL, 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.

- **Community Learning Center**

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.

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.

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.

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

Comprehensive Adult Student Assessment System (CASAS) standardized testing is administered in all ABE, Citizenship, ESL and HSS classrooms. Students are expected to take a pre-test at the beginning of the program and post-test at the end. CASAS tests ensure compliance with the Workforce Investment Act under which these programs are funded.

Veterans Service

Counseling and guidance for veterans is provided at SAC campus.

Veterans Resource Center

Monday, Tuesday, Thursday 8 a.m. – 6 p.m.
 Wednesday 8 a.m. – 7 p.m.
 Friday 9 a.m. – 12 p.m.
 714-564-6050



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
Santa Ana, CA 92706
Room B-8
714-564-6173

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: <http://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

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 2016-2017 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:

- A. 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.
- B. Mathematics.** Students will be required to pass an approved district mathematics examination, or the Algebra 1A course finals.
- C. 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:

1. Officer and enlisted service school courses;
2. Off-duty classes offered by the armed forces and cooperating local institutions;
3. Correspondence courses offered by the United States Armed Forces Institute, the Marine Corps Institute, the Coast Guard Institute, and cooperating colleges and universities;

4. 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 licence 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.

1. 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.)

2. 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:

1. 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.
2. The amount of credit issued is to be based on 16 clock hours per credit unit.
3. The maximum of 20 units toward electives will be accepted in this manner.
4. 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

1. Career Technical Education (CTE)

High School elective credit for selected CTE/basic computer courses offered through the CTE Department can be awarded.

2. 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.

3. 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 Technical Education (CTE) 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

Diagnostic placement tests are available at selected continuing education facilities for possible placement in the many available programs open to the students, such as English as a Second Language, Adult Basic Education, Learning Skills Program, and High School Subjects and GED.

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 or 714-241-5721 (Centennial 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.)



POLICIES GOVERNING STUDENTS

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 incompetence (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.

The Area Dean of Instruction and Student Services or designee will assist the student in arranging an appointment with the staff member.

- b. 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 aids
 - 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.
3. 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 following 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 aids; 4) placement; 5) veterans; and 6) division/department, if such files are maintained as official files rather than individual files. Request forms are avail-

able 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 \$1.00 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 PROGRAM:

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ADULT SECONDARY EDUCATION (ASE)

Students who complete the SAC SCE Adult Secondary Education High School Subjects of 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.

Learning Outcome(s):

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

The sequence of courses in the High School Subjects and Adult Basic Education 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.

Core Courses:	Units
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 009, 018, 023, 024, 025, 044, 046; Home Economics 520; Health & Safety 877;

HSS General 010, 032, 144, 229, 770; Study Skills 221, 222; English 040, 065, 066, 067, 068, 096, 098; Reading 089, 093, 094; Math 140, 154, 155, 158, 159, 163, 164, 165, 166, 167, 167, 172, 173; Science 170, 171, 180, 185, 186, 188, 189, 190, 191, 192, 193, 196, 197, 198; Social Science 215, 223, 224, 225, 228, 231, 232; Arts 500, 601, 828, 837; Leadership 090, 092, 093, 094; Other 740, 742, 743, 744, 749, 875.

TRANSITION TO COLLEGE CERTIFICATE OF COMPETENCY

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:

High School Subjects 770, Orientation to College

Choose 1:

High School Subjects 084, Composition 2
High School Subjects 089, Reading Proficiency Development
High School Subjects 164, Algebra 1B

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.

Student Learning Outcome(s):

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

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.

Core Courses

Adult Basic Education 023, Adult Basic Education Reading

Adult Basic Education 024, Adult Basic Education Writing

Adult Basic Education 025, Adult Basic Education Math

ADULT BASIC EDUCATION/ADULT SECONDARY EDUCATION READING PROFICIENCY CERTIFICATE OF COMPETENCY

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

ABE 023, Adult Basic Education Reading

Choose 1:

HSRDG 089, Reading Proficiency Development

HSRDG 093, Building Reading Skills 1

HSRDG 094, Building Reading Skills 2

ADULT BASIC EDUCATION/ADULT SECONDARY EDUCATION WRITING PROFICIENCY CERTIFICATE OF COMPETENCY

This combination of courses is designed to prepare students for higher level writing skills used in high school courses, GED preparation, and college courses.

Core Courses

Adult Basic Education 024, Adult Basic Education Writing

High School Subjects English 083, Composition 1



ADULT BASIC EDUCATION/ADULT SECONDARY EDUCATION MATH PROFICIENCY CERTIFICATE OF COMPETENCY

This combination of courses is designed to prepare students for higher level math skills used in high school courses, GED preparation, and college courses.

Core Courses

Adult Basic Education 025, Adult Basic Education Math
High School Subjects Math 159, Math Fundamentals 2

SECONDARY EDUCATION (GED TEST PREPARATION) CERTIFICATE OF COMPLETION

Courses in ABE lead to the GED Test Preparation class, which prepares students for the reading, writing, and math skills necessary for the achievement of the official GED Certificate. The GED Certificate is a nationally recognized certificate which is equivalent to a high school diploma and prepares students for other higher education.

To obtain this certificate, take two courses.

Core Courses:

GED Studies 031, GED Test Preparation

Choose 1:

Adult Basic Education 023, Adult Basic Education Reading
Adult Basic Education 024, Adult Basic Education Writing
Adult Basic Education 025, Adult Basic Education Math

ENGLISH AS 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.

Student Learning Outcome(s):

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 BEG-INT A CERTIFICATE OF COMPLETION

This combination of courses is designed to help students prepare for transitioning to Adult Basic Education courses (ABE), High School courses, GED Preparation courses, and college courses.

To obtain this certificate, take two courses.

ESL 703, Academic ESL Beginning 3
ESL 711, Academic ESL Intermediate 1

ACADEMIC ESL BEG-INT B CERTIFICATE OF COMPETENCY

This combination of courses is designed to help students prepare for transitioning to Adult Basic Education courses (ABE), High School courses, GED Preparation courses, and college courses.

To obtain this certificate, take two courses.

Choose 1:

ESL 703, Academic ESL Beginning 3
ESL 711, Academic ESL Intermediate 1

Choose 1:

ESL 120, ESL Civics
ESL 394, ESL Writing A
ESL 398, Community Learning Center
ESL 530, American English Pronunciation
ESL 570, Conversation 1

ACADEMIC ESL INT A CERTIFICATE OF COMPLETION

This combination of courses is designed to transition students to Adult Basic Education courses (ABE), High School courses, GED Preparation courses, and college courses.

To obtain this certificate, take two courses.

ESL 712, Academic ESL Intermediate 2
ESL 713, Academic ESL Intermediate 3

ACADEMIC ESL INT B CERTIFICATE OF COMPETENCY

This combination of courses is designed to transition students to Adult Basic Education courses (ABE), High School courses, GED Preparation courses, and college courses.

To obtain this certificate, take two courses.

Choose 1:

ESL 712, Academic ESL Intermediate 2
ESL 713, Academic ESL Intermediate 3

Choose 1:

ESL 120, ESL Civics
ESL 395, ESL Writing B
ESL 398, Community Learning Center
ESL 490, Advanced Writing and Grammar Review
ESL 530, American English Pronunciation
ESL 580, Conversation 2

ACADEMIC ESL INT C CERTIFICATE OF COMPLETION

This combination of courses is designed to transition students to Adult Basic Education courses (ABE).

To obtain this certificate, take two courses.

Choose 1:

ESL 712, Academic ESL Intermediate 2
ESL 713, Academic ESL Intermediate 3

Choose 1:

Adult Basic Education 023, Adult Basic Education Reading
Adult Basic Education 024, Adult Basic Education Writing



ACADEMIC ESL INT D CERTIFICATE OF COMPLETION

This combination of courses is designed to transition students to High School courses and GED Preparation courses.

To obtain this certificate, take two courses.

Choose 1:

ESL 713, Academic ESL Intermediate 3

Choose 1:

High School Reading 089, Reading Proficiency Development
High School Reading 093, Building Reading Skills 1

VOCATIONAL ESL A CERTIFICATE OF COMPLETION

This combination of courses is designed to help students communicate successfully in an English speaking workplace.

To obtain this certificate, take two courses.

ESL 510, VESL: English for Work 1

ESL 520, VESL: English for Work 2

VOCATIONAL ESL B CERTIFICATE OF COMPLETION

This combination of courses is designed to help beginning ESL students communicate successfully in an English speaking workplace.

To obtain this certificate, take two courses.

Choose 1:

ESL 510, VESL: English for Work 1

Choose 1:

ESL 405, ESL/Family Literacy Beginning 2
ESL 420, Beginning ESL 2
ESL 407, ESL/Family Literacy Beginning 3
ESL 430, Beginning ESL 3
ESL 703, Academic ESL Beginning 3
ESL 398, Community Learning Center
ESL 570, Conversation 1
ESL 394, ESL Writing A

VOCATIONAL ESL C CERTIFICATE OF COMPETENCY

This combination of courses is designed to help intermediate ESL students communicate successfully in an English speaking workplace.

To obtain this certificate, take two courses.

Choose 1:

ESL 520, VESL: English for Work 2

Choose 1:

ESL 398, Community Learning Center
ESL 120, ESL Civics
ESL 394, ESL Writing A
ESL 395, ESL Writing B
ESL 530, American English Pronunciation
ESL 570, Conversation 1
ESL 580, Conversation 2
ESL 490, Advanced Writing and Grammar Review
ESL 408, ESL/Family Literacy Intermediate 1
ESL 460, Intermediate ESL 1
ESL 711, Academic ESL Intermediate 1
ESL 409, ESL/Family Literacy Intermediate 2
ESL 470, Intermediate ESL 2
ESL 712, Academic ESL Intermediate 2
ESL 480, Intermediate ESL 3
ESL 713, Academic ESL Intermediate 3

COMMUNICATION ESL INTRO A CERTIFICATE OF COMPETENCY

This entry-level combination of courses is designed to help students begin to communicate in everyday life situations they will encounter at home, at school, at work and in the community.

To obtain this certificate, take two courses.

Choose 1:

ESL 399, ESL Literacy

Choose 1:

ESL 401, ESL/Family Literacy, Beginning 1
ESL 410, Beginning ESL 1

COMMUNICATION ESL INTRO B CERTIFICATE OF COMPETENCY

This entry-level combination of courses is designed to help students begin to communicate in everyday life situations they will encounter at home, at school, at work, and in the community.

To obtain this certificate, take two courses.

Choose 1:

ESL 399, ESL Literacy
ESL 401, ESL/Family Literacy, Beginning 1
ESL 410, Beginning ESL 1

Choose 1:

ESL 398, Community Learning Center

COMMUNICATION ESL BEG A CERTIFICATE OF COMPLETION

This beginning combination of courses is designed to help students communicate in a limited way in everyday life situations they will encounter at home, at school, at work and in the community.

To obtain this certificate, take two courses.

Choose 1:

ESL 401, ESL/Family Literacy, Beginning 1
ESL 410, Beginning ESL 1

Choose 1:

ESL 405, ESL/Family Literacy Beginning 2
ESL 420, Beginning ESL 2

COMMUNICATION ESL BEG B CERTIFICATE OF COMPLETION

This combination of courses is designed to help students communicate in a limited way in everyday life situations they will encounter at home, at school, at work, and in the community.

To obtain this certificate, take two courses.

Choose 1:

ESL 401, ESL/Family Literacy, Beginning 1
ESL 405, ESL/Family Literacy Beginning 2
ESL 410, Beginning ESL 1
ESL 420, Beginning ESL 2

Choose 1:

ESL 398, Community Learning Center



COMMUNICATION ESL TRANSITIONING A CERTIFICATE OF COMPLETION

This combination of courses is designed to help students communicate effectively in many everyday life situations they will encounter at home, at school, at work, and in the community.

To obtain this certificate, take two courses.

Choose 1:

ESL 407, ESL/Family Literacy Beginning 3
ESL 430, Beginning ESL 3

Choose 1:

ESL 408, ESL/Family Literacy Intermediate 1
ESL 460, Intermediate ESL 1
ESL 703, Academic ESL Beginning 3

COMMUNICATION ESL TRANSITIONING B CERTIFICATE OF COMPETENCY

This combination of courses is designed to help students communicate adequately in many everyday life situations they will encounter at home, at school, at work, and in the community.

To obtain this certificate, take two courses.

Choose 1:

ESL 407, ESL/Family Literacy Beginning 3
ESL 430, Beginning ESL 3
ESL 408, ESL/Family Literacy Intermediate 1
ESL 460, Intermediate ESL 1
ESL 711, Academic ESL Intermediate 1

Choose 1:

ESL 120, ESL Civics
ESL 394, ESL Writing A
ESL 398, Community Learning Center
ESL 530, American English Pronunciation
ESL 570, Conversation 1

COMMUNICATION ESL INT A CERTIFICATE OF COMPLETION

This combination of courses is designed to help students communicate successfully in most everyday life situations they will encounter at home, at school, at work, and in the community.

To obtain this certificate, take two courses.

Choose 1:

ESL 409, ESL/Family Literacy Intermediate 2
ESL 470, Intermediate ESL 2

Choose 1:

ESL 480, Intermediate ESL 3
ESL 712, Academic ESL Intermediate 2

COMMUNICATION ESL INT B CERTIFICATE OF COMPETENCY

This combination of courses is designed to help students communicate successfully in most everyday life situations they will encounter at home, at school, at work, and in the community.

To obtain this certificate, take two courses.

Choose 1:

ESL 409, ESL/Family Literacy Intermediate 2
ESL 470, Intermediate ESL 2
ESL 480, Intermediate ESL 3

Choose 1:

ESL 120, ESL Civics
ESL 395, ESL Writing B
ESL 398, Community Learning Center
ESL 490, Advanced Writing and grammar Review
ESL 530, American English Pronunciation
ESL 580, Conversation 2
ESL 712, Academic ESL Intermediate 2
ESL 713, Academic ESL Intermediate 3

COMMUNICATION ESL INT C CERTIFICATE OF COMPLETION

This combination of courses is designed to transition students to Adult Basic Education courses (ABE).

To obtain this certificate, take two courses.

Choose 1:

ESL 409, ESL/Family Literacy Intermediate 2
ESL 470, Intermediate ESL 2
ESL 480, Intermediate ESL 3

Choose 1:

Adult Basic Education 023, Adult Basic Education Reading
Adult Basic Education 024, Adult Basic Education Writing

COMMUNICATION ESL INT D CERTIFICATE OF COMPLETION

This combination of courses is designed to transition students to High School courses, GED Preparation courses, and college courses.

To obtain this certificate, take two courses.

Choose 1:

ESL 408, ESL/Family Literacy Intermediate 1
ESL 409, ESL Family Literacy Intermediate 2
ESL 460, Intermediate ESL 1
ESL 470, Intermediate ESL 2
ESL 480, Intermediate ESL 3

Choose 1:

HSRDG 089, Reading Proficiency Development
HSRDG 093, Building Reading Skills 1



CAREER TECHNICAL EDUCATION (CTE)

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.

CHILDCARE WORKERS CERTIFICATE OF COMPLETION

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.

Complete all of the following courses.

Vocational Business 559, Business Practices in Family Day Care

Vocational Business 590, Introduction on How to Start a Small Business

Vocational Business 400, Employability Skills

Parent Education 558, Early Childhood Care and Development for Family Child Care Providers

Parent Education 562, Health Education for Family Day Care Providers

PARAPROFESSIONAL MENTAL HEALTH WORKER CERTIFICATE OF COMPLETION

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.

Complete all of the following courses.

Vocational Business 400, Employability Skills

Vocational Health 895, Paraprofessional Mental Health Worker I

Vocational Health 896, Paraprofessional Mental Health Worker II

Vocational Health 897, Paraprofessional Mental Health Worker III

CUSTOMER SERVICE REPRESENTATIVE CERTIFICATE OF COMPLETION

This series of courses prepares students for customer service positions in a wide variety of business fields. The program provides an open entry/open exit instructional format that allows students to attain skill development to interface directly with customers as the company representative in identifying customer needs, providing appropriate service, and in resolving special problems that may arise. Focus is on interpersonal and customer services in the workplace, as well as on upgrading technological competence. Students will be prepared to work as commercial or residential service representatives in major department stores, collection agencies, credit bureaus, airlines, travel agencies, medical insurance agencies, public utilities, and telephone answering services.

Complete all of the following courses.

Vocational Business 124, Introduction to Keyboarding I

Vocational Business 243, Introduction to Customer Service Skills

Vocational Business 258, Navigating the Internet

Vocational Business 259, Orientation to Computers

Vocational Business 260, Introduction to Word Processing Using MS Word

Vocational Business 400, Employability Skills

GENERAL OFFICE CLERK CERTIFICATE OF COMPLETION

This series of courses prepares students for entry-level general office clerk positions in a business environment. This program provides an open-entry/open-exit instructional format that allows students to attain knowledge of basic level office concepts, procedures, and technology commonly used in an office setting. Students learn introduction to keyboarding, computer software applications, general office skills, customer service and telephone techniques, and soft skills. This certificate provides the foundation for preparing students in entry level jobs and careers in the business environment.

Complete all of the following courses.

Vocational Business 118, Introduction to Windows

Vocational Business 124, Introduction to Keyboarding I

Vocational Business 258, Navigating the Internet

Vocational Business 260, Introduction to Word Processing Using MS Word

Vocational Business 262, Introduction to Spreadsheets Using MS Excel

Vocational Business 400, Employability Skills



EXECUTIVE SECRETARY/ADMINISTRATIVE ASSISTANT CERTIFICATE OF COMPLETION

This series of courses prepares students for in-depth training in executive secretary/administrative assistant positions. The open-entry/open-exit, competency-based format promotes success in a high employment occupational field. This certificate program develops skills in research, report and correspondence preparation, advanced computer software applications, database management, interactive presentations, customer service and telephone techniques, and other advanced office procedures.

Complete ALL of the following courses.

Vocational Business 125, Introduction to Keyboarding II

Vocational Business 244, Introduction to Databases Using Microsoft Access

Vocational Business 245, Introduction to Desktop Publishing Using Microsoft Publisher

Vocational Business 304, Introduction to Electronic Presentations Using PowerPoint

Vocational Business 400, Employability Skills

COMPUTER MAINTENANCE AND REPAIR WORKERS CERTIFICATE OF COMPLETION

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.

Complete all of the following courses.

Vocational Business 574, Computer Basics: Hardware and Software

Vocational Business 450, Hardware and Software A+ Preparation, Review, Practice

Vocational Business 576, Computer Basics: Systems and Networking Essentials

VOCATIONAL CONSTRUCTION TECHNOLOGY CERTIFICATE OF COMPLETION

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.

Complete all of the following courses.

Vocational Construction 610, Vocational Construction Technology Module I

Vocational Construction 620, Vocational Construction Technology Module II

Vocational Business 400, Employability Skills



ADULT BASIC EDUCATION (ABE)

Adult Basic Education 018 Leadership Basics, Part 2

Credit(s): 0

Class Hours: 72

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. Recommended for ABE and ESL Intermediate 1, 2, or 3 or above students. 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.

Adult Basic Education 023

Adult Basic Education Reading

Credit(s): 0

Class Hours: 72

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.

Adult Basic Education 024

Adult Basic Education Writing

Credit(s): 0

Class Hours: 72

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.

Adult Basic Education 025

Adult Basic Education Math

Credit(s): 0

Class Hours: 72

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.

Adult Basic Education 027

Academic Vocabulary for Language Arts

Credit(s): 0

Class Hours: 15

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.

Adult Basic Education 028

Academic Vocabulary for Math

Credit(s): 0

Class Hours: 15

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.

Adult Basic Education 029

Academic Vocabulary for Science

Credit(s): 0

Class Hours: 15

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.

Adult Basic Education 030

Academic Vocabulary for Social Studies

Credit(s): 0

Class Hours: 15

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.

Adult Basic Education 031

Academic Vocabulary for Technology

Credit(s): 0

Class Hours: 15

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.

Adult Basic Education 044

Leadership Basics Part 1

Credit(s): 0

Class Hours: 72

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. Recommended for ABE and ESL Intermediate 1, 2, or 3 or above students. 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.

Adult Basic Education 046

Attitudes for Success

Credit(s): 0

Class Hours: 72

Provides students with classroom discussion and information about attitudes and behaviors that influence success in their personal, educational and career development.

Adult Basic Education 111

Spanish Literacy for Adults

Credit(s): 0

Class Hours: 240-480

Assists native Spanish-speaking students in acquiring literacy in Spanish in order to facilitate the transition to beginning ESL 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.

Adult Basic Education 137

Topics in Adult Basic Education

Credit(s): 0

Class Hours: 3-216

A specialized course on topics related to current needs of Adult Basic Education students. Open Entry/Open Exit.



CITIZENSHIP (CTZN)

Citizenship 020

Citizenship

Credit(s): 0

Class Hours: 72

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. Recommended for students in Beginning ESL 1 or 2. Open Entry/Open Exit.

COUNSELING (CNSL)

Counseling 303

Educational & Career Assessment

Credit(s): 0

Class Hours: 3

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.

Counseling 305

Orientation to College

Credit(s): 0

Class Hours: 8

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 HSS 770. Open Entry/Open Exit.

ENGLISH AS A SECOND LANGUAGE (ESL)

English As a Second Language 120

ESL Civics

Credit(s): 0

Class Hours: 144

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.

English AS a Second Language 130

Topics in English As a Second Language

Credit(s): 0

Class Hours: 3-216

A specialized course on topics related to current needs of English as a Second Language students.

English As a Second Language 392

Writing & Computers: Developing a School Publication

Credit(s): 0

Class Hours: 72

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.

English As a Second Language 394

ESL Writing A

Credit(s): 0

Class Hours: 72

Introduces non-native English speakers to basic sentence structure and all steps of the writing process including activities to write cohesive simple paragraphs. This course is designed for students who test at Beginning ESL 3 and higher levels on the ESL Placement or the ESL pre- and post-tests. Students may be asked to submit a writing sample. Open Entry/Open Exit.

English As a Second Language 395

ESL Writing B

Credit(s): 0

Class Hours: 72

Introduces the use of more advanced sentence structures and extensive practice with the writing process to improve composition skills. This course is designed for students who test at Beginning ESL 3 and higher levels on the ESL Placement or the ESL pre- and post-tests. Students may be asked to submit a writing sample. Open Entry/Open Exit.

English As a Second Language 398

ESL Community Learning Center

Credit(s): 0

Class Hours: 72

Provides English language learners of all levels the opportunity to improve and support their language skills, while increasing knowledge of civics, citizenship, and computer literacy, through individualized, small group, and technology-based instruction. Open Entry/Open Exit.

English As a Second Language 399

ESL Literacy

Credit(s): 0

Class Hours: 216

Develops the ability of second language learners to recognize and read letters and numbers, copy/produce the alphabet, numerals, and simple personal information. This is the first course in the Continuing Education ESL continuum. Open Entry/Open Exit.

English As a Second Language 401

ESL/Family Literacy Beginning 1

Credit(s): 0

Class Hours: 216

Emphasizes listening comprehension and beginning oral production of simple conversations, reading of practiced words and phrases, and prewriting tasks. Utilizes various language-based activities to enhance family language learning with adults and children reading together. Develops parenting skills using language appropriate for this level. This course includes the ESL Beginning 1 curriculum. Open Entry/Open Exit.

English As a Second Language 405

ESL/Family Literacy Beginning 2

Credit(s): 0

Class Hours: 216

Emphasizes comprehending simple conversations, communicating survival needs, reading phrases and simple sentences, and performing communicative written tasks. Utilizes various language-based activities to enhance family language learning with adults and children reading together. Develops parenting skills using language appropriate for this level. This course includes the ESL Beginning 2 curriculum. Open Entry/Open Exit.

English As a Second Language 407

ESL/Family Literacy Beginning 3

Credit(s): 0

Class Hours: 216

Emphasizes comprehending, participating in, and sustaining simple conversations, reading short passages with understanding, and producing short written passages. Utilizes various language-based activities to enhance family language learning with adults and children reading together. Develops parenting skills using language appropriate for this level. This course includes the ESL Beginning 3 curriculum. Open Entry/Open Exit.

English As a Second Language 408

ESL/Family Literacy Intermediate 1

Credit(s): 0

Class Hours: 216

Emphasizes creative oral language activities, initial critical thinking skills in reading comprehension, and written tasks which begin to focus on academic skills. This course includes the ESL Intermediate 1 curriculum with an additional family literacy focus and component. Utilizes various language-based activities to enhance family language learning. Develops parenting skills using language appropriate for this level. Five high school elective credits may be granted if student passes the ESL posttest for this class with 75% or better. Open Entry/Open Exit.



English As a Second Language 409
ESL/Family Literacy Intermediate 2

Credit(s): 0

Class Hours: 216

Emphasizes understanding higher level language activities, reading passages with increased understanding, and increasing focus on creative and academic writing tasks. This course includes the ESL Intermediate 2 curriculum with an additional family literacy focus and component. Utilizes various language-based activities to enhance family language learning. Five high school elective credits may be granted if student passes the ESL posttest for this class with 75% or better. Open Entry/Open Exit.

English As a Second Language 410
Beginning ESL 1

Credit(s): 0

Class Hours: 216

Emphasizes listening comprehension and beginning oral production of simple conversations, reading of practiced words and phrases, and prewriting tasks. This is the second course in the Continuing Education ESL continuum. Open Entry/Open Exit.

English As a Second Language 420
Beginning ESL 2

Credit(s): 0

Class Hours: 216

Emphasizes comprehending simple conversations, communicating survival needs, reading phrases and simple sentences, and performing communicative written tasks. This is the third course in the Continuing Education ESL continuum. Open Entry/Open Exit.

English As a Second Language 430
Beginning ESL 3

Credit(s): 0

Class Hours: 216

Emphasizes comprehending, participating in and sustaining simple conversations, reading short passages with understanding, and producing short written passages. This is the fourth course in the Continuing Education ESL continuum. Open Entry/Open Exit.

English As a Second Language 460
Intermediate ESL 1

Credit(s): 0

Class Hours: 216

Emphasizes creative oral language activities, initial critical thinking skills in reading comprehension, and written tasks which begin to focus on academic skills. This is the fifth course in the Continuing Education ESL continuum. Five high school elective credits may be granted if student passes the ESL posttest for this class with 75% or better. Open Entry/Open Exit.

English As a Second Language 470
Intermediate ESL 2

Credit(s): 0

Class Hours: 216

Emphasizes understanding higher level language activities, reading passages with increased understanding, and increasing focus on creative and academic writing tasks. This is the sixth course in the Continuing Education ESL continuum. Five high school elective credits may be granted if student passes the ESL posttest for this class with 75% or better. Open Entry/Open Exit.

English As a Second Language 480
Intermediate ESL 3

Credit(s): 0

Class Hours: 216

Emphasizes higher level language activities, conversations which convey complex thought patterns, authentic material which expands the use of critical thinking skills, and realistic and creative/academic writing. This is the seventh course in the Continuing Education continuum. Five high school elective credits may be granted if student passes the posttest for this class with 70% or better. Open Entry/Open Exit.

English As a Second Language 490
Advanced Writing & Grammar Review

Credit(s): 0

Class Hours: 72

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.

English As a Second Language 491
Advanced Writing & Grammar Review

Credit(s): 0

Class Hours: 216

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.

English As a Second Language 510
VESL: English for Work 1

Credit(s): 0

Class Hours: 216

Prepares beginning level non-native English-speaking students to enter the workforce. 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. Recommended for students in Beginning ESL 2 or Beginning ESL 3. Open Entry/Open Exit.

English As a Second Language 520
VESL: English for Work 2

Credit(s): 0

Class Hours: 216

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 language skills instruction. Recommended for students in Intermediate 1 or higher. Open Entry/Open Exit.

English As a Second Language 530
American English Pronunciation

Credit(s): 0

Class Hours: 216

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.

English As a Second Language 570
Conversation 1

Credit(s): 0

Class Hours: 72

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.



**English As a Second Language 580
Conversation 2**

Credit(s): 0

Class Hours: 72

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.

**English As a Second Language 701
Academic ESL Beginning 1**

Credit(s): 0

Class Hours: 216

First of the six level academic ESL courses with an emphasis on vocabulary development and basic oral communication utilizing the targeted vocabulary. Extensive oral practice of the scripted dialogue to refine pronunciation and intonation to produce comprehensible oral communication. Provides multi-skills practice in a contextualized format that integrates listening, speaking, reading, and writing in preparation for academic success. Open Entry/Open Exit.

**English As a Second Language 702
Academic ESL Beginning 2**

Credit(s): 0

Class Hours: 216

Second of the six level academic ESL courses with continued vocabulary development, basic oral communication practice and the introduction and practice of basic grammatical structures of English. Reading development skills will be introduced and practiced. Provides multi-skills practice in a contextualized format that integrates listening, speaking, reading, and writing in preparation for academic success. Open Entry/Open Exit.

**English As a Second Language 703
Academic ESL Beginning 3**

Credit(s): 0

Class Hours: 216

First academic ESL course emphasizing basic grammatical structures of English, reading skills, and sentence level writing. This course integrates listening, speaking, reading, and writing skills in preparation for academic success. Open Entry/Open Exit.

**English As a Second Language 704
Academic Beginning A**

Credit(s): 0

Class Hours: 216

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.

**English As a Second Language 705
Academic Beginning B**

Credit(s): 0

Class Hours: 216

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. Open Entry/Open Exit.

**English As a Second Language 706
Academic Intermediate A**

Credit(s): 0

Class Hours: 216

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.

**English As a Second Language 707
Academic Intermediate B**

Credit(s): 0

Class Hours: 216

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.

**English As a Second Language 711
Academic ESL Intermediate 1**

Credit(s): 0

Class Hours: 216

Second academic ESL course emphasizing the grammatical structures of English, reading skills, and basic paragraph writing. This course integrates listening, speaking, reading, and writing skills. Begin to use critical thinking skills in reading comprehension. Five high school elective credits may be granted if student passes the ESL posttest with 75% or better. Open Entry/Open Exit.

**English As a Second Language 712
Academic ESL Intermediate 2**

Credit(s): 0

Class Hours: 216

Third academic ESL course emphasizing more complex grammatical structures of English, reading skills, and more complex paragraphs. This course integrates listening, speaking, reading, and writing skills. Five high school elective credits may be granted if student passes the ESL posttest with 75% or better. Open Entry/Open Exit.

**English As a Second Language 713
Academic ESL Intermediate 3**

Credit(s): 0

Class Hours: 216

Fourth academic ESL course emphasizing complex grammatical structures of English, reading skills, and more complex paragraph writing. This course integrates listening, speaking, reading, and writing skills. Five high school elective credits may be granted if student passes the ESL posttest with 70% or better. Open Entry/Open Exit.

**English As a Second Language 720
Esl Transition to College**

Credit(s): 0

Class Hours: 216

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 3 is recommended. Five high school elective credits may be granted for successful completion of the class. Open Entry/Open Exit.

HS SUBJECTS - ARTS (HSART)

HS Subjects - Arts 601

Music Theory 1

Credit(s): 5

Class Hours: 72

Provides a beginning level music course that introduces students to the vocabulary and basic principals of music. The primary emphasis will be on rhythm, pitch, and notation. Emphasis will also be given to beginning piano study.

HS Subjects - Arts 828

Understanding America Through Art

Credit(s): 5

Class Hours: 72

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.

**HS Subjects - Arts 837****The Film As Art**

Credit(s): 5

Class Hours: 72

Traces the history of film from the recording of a single event through the silent film era. Culminates in the use of classic and contemporary literature as a basis for modern film. Open Entry/Open Exit.

HS SUBJECTS - ENGLISH (HSENG)**HS Subjects - English 040****California High School Exit Exam Language Arts Preparation**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - English 065**English Fundamentals 1**

Credit(s): 5

Class Hours: 72

Introduces students to basic concepts and skills of building vocabulary, grammar, parts of speech, writing sentences, and paragraphs. Open Entry/Open Exit.

HS Subjects - English 066**English Fundamentals 2**

Credit(s): 5

Class Hours: 72

Reinforces and expands the basic concepts of sentence structure, vocabulary, grammar, parts of speech, and writing skills. Open Entry/Open Exit.

HS Subjects - English 067**English Fundamentals 3**

Credit(s): 5

Class Hours: 72

Provides an intermediate English course that expands upon vocabulary, parts of speech, and grammar to accelerate writing skills. Open Entry/Open Exit.

HS Subjects - English 068**English Fundamentals 4**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - English 070**The Short Story**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - English 076**The Novel**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - English 083**Composition 1**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - English 084**Composition 2**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - English 085**Composition 3**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - English 096**Bldg Vocabulary 1**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - English 097**Bldg Vocabulary 2**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - English 098**Building Vocabulary 3**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - English 701**English 1**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - English 702**English 2**

Credit(s): 5

Class Hours: 128-160

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.

**HS Subjects - English 703****English 3**

Credit(s): 5

Class Hours: 128-168

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.

HS Subjects - English 704**English 4**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - English 705**English 5**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - English 706**English 6**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - English 707**English 7**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - English 708**English 8**

Credit(s): 5

Class Hours: 72

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.

HS SUBJECTS - MATH (HSMTH)**HS Subjects - Math 140****California High School Exit Exam Math****Preparation**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - Math 151**Principles of Mathematics**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - Math 152**Pre-Algebra**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - Math 154**Pre-Algebra A**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - Math 155**Pre-Algebra B**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - Math 158**Math Fundamentals 1**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - Math 159**Math Fundamentals 2**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - Math 163**Algebra 1A**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - Math 164**Algebra 1B**

Credit(s): 5

Class Hours: 72

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.

**HS Subjects - Math 165****Algebra 2A**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - Math 166**Algebra 2B**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - Math 167**Geometry A**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - Math 168**Geometry B**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - Math 172**Basic Consumer Math 1A**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - Math 173**Basic Consumer Math 1B**

Credit(s): 5

Class Hours: 72

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.

HS SUBJECTS - OTHER (HSOTH)**HS Subjects - Other 740****Spanish 1**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - Other 742**Spanish 2**

Credit(s): 5

Class Hours: 72

Provides students with additional skills, concepts, grammar and vocabulary appropriate for a first year course in learning to speak and write Spanish.

HS Subjects - Other 743**Spanish 3**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - Other 744**Spanish 4**

Credit(s): 5

Class Hours: 72

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.)

HS SUBJECTS - READING (HSRDG)**HS Subjects - Reading 089****Reading Proficiency Development**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - Reading 093**Building Reading Skills 1**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - Reading 094**Building Reading Skills 2**

Credit(s): 5

Class Hours: 72

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.

HS SUBJECTS - SOCIAL SCIENCES (HSSOC)**HS Subjects - Social Sciences 215****Introduction to Economics**

Credit(s): 5

Class Hours: 72

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.

HS Subjects - Social Sciences 218**U.S. History 1: Colonization to Industrialization**

Credit(s): 5

Class Hours: 72

Surveys events, movements, and personalities in United States history from colonial period through reconstruction, westward expansion, and industrialization. Includes immigration, plight of Native and African Americans, reform movements, and geographical influences in the history of the United States. Open Entry/Open Exit.



HS Subjects - Social Sciences 219
U.S. History 2: The Shaping of Modern America

Credit(s): 5

Class Hours: 72

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. (Recommended for students who have completed U.S. History 1 or equivalent.). Open Entry/Open Exit.

HS Subjects - Social Sciences 221

Psychology

Credit(s): 5

Class Hours: 72

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.

HS Subjects - Social Sciences 222

Government 1: U.S. Federal Government and Politics

Credit(s): 5

Class Hours: 72

Examines the development of the federal government from colonial times, the structure of the contemporary government, and the economic, social and political influence on American citizens and their civic duties and responsibilities. Open Entry/Open Exit.

HS Subjects - Social Sciences 223

Government 2: State and Local Government

Credit(s): 5

Class Hours: 72

Examines the diversity of California's geography, economy, and population as well as knowledge of California's history and constitutional development. Explores voters' roles in state and local politics. Open Entry/Open Exit.

HS Subjects - Social Sciences 224

World Geography 1A

Credit(s): 5

Class Hours: 72

Provides a basic foundation for understanding physical geography and the cultural and economic variables in 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.

HS Subjects - Social Sciences 225

World Geography 1B

Credit(s): 5

Class Hours: 72

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.

HS Subjects - Social Sciences 228

World History

Credit(s): 5

Class Hours: 72

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.

HS Subjects - Social Sciences 231

Modern World History 1

Credit(s): 5

Class Hours: 72

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.

HS Subjects - Social Sciences 232

Modern World History 2

Credit(s): 5

Class Hours: 72

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.

HS SUBJECTS- NATURAL SCIENCES (HSSCI)

HS Subjects- Natural Sciences 170

Biology 1A

Credit(s): 5

Class Hours: 72

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.

HS Subjects- Natural Sciences 171

Biology 1B

Credit(s): 5

Class Hours: 72

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.

HS Subjects- Natural Sciences 185

Earth Science 2

Credit(s): 5

Class Hours: 72

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.

HS Subjects- Natural Sciences 186

Life Science 2

Credit(s): 5

Class Hours: 72

Surveys the principles and concepts of life science: the study of organisms and their environment. Animals, human life, heredity and ecology will be examined. Open Entry/Open Exit.

HS Subjects- Natural Sciences 188

Earth Science 1

Credit(s): 5

Class Hours: 72

Provides instruction in the principles and concepts of earth science. The earth's matter and features will be examined. Open Entry/Open Exit.

HS Subjects- Natural Sciences 189

Life Science 1

Credit(s): 5

Class Hours: 72

Surveys the principles and concepts of life science: the study of organisms and their environment. Cells, animals, plants, protists, human life, heredity and ecology will be examined. Open Entry/Open Exit.

HS Subjects- Natural Sciences 190

Physical Science 1

Credit(s): 5

Class Hours: 72

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.

HS Subjects- Natural Sciences 191

Physical Science 2

Credit(s): 5

Class Hours: 72

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.

**HS Subjects- Natural Sciences 192****Basic Science 1**

Credit(s): 5

Class Hours: 72

Surveys basic principles and concepts of general science including earth, space and physical science. Examines minerals, rocks, the atmosphere, weather, climate, and the earth in space. Discusses properties and classes of matter, Newton's Laws of Motion, energy and energy resources. Open Entry/Open Exit.

HS Subjects- Natural Sciences 193**Basic Science 2**

Credit(s): 5

Class Hours: 72

Surveys principles and concepts of life and ecological science. Examines life structure and classification, cellular processes, heredity, evolution, body systems, plants, ecology, and conserving resources. Open Entry/Open Exit.

HS Subjects- Natural Sciences 196**Health Science**

Credit(s): 5

Class Hours: 72

Provides a basic foundation in personal health, nutrition, body functions, first aid and community health. Open Entry/Open Exit.

HS Subjects- Natural Sciences 197**Human Anatomy & Physiology I**

Credit(s): 5

Class Hours: 72

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.

HS Subjects- Natural Sciences 198**Human Anatomy and Physiology II**

Credit(s): 5

Class Hours: 80

Provides students with a second semester course concentrating on anatomical terminology, body directions, and the following systems: muscular, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive. Diverse learning activities are used in the classroom to develop a variety of skills.

HEALTH & SAFETY (SAFE)**Health & Safety 875****First Aid**

Credit(s): 0

Class Hours: 15

Provides students with general knowledge of basic first aid and CPR procedures. Open Entry/Open Exit.

Health & Safety 877**Health Issues & Concepts**

Credit(s): 0

Class Hours: 72

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.

HIGH SCHOOL SUBJECTS (HSS)**High School Subjects 031****High School Equivalency Test Preparation**

Credit(s): 0

Class Hours: 360

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.

High School Subjects 032**HS Subjects Individualized Instruction**

Credit(s): 0

Class Hours: 72

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.

High School Subjects 090**Leadership Basics, Part 1**

Credit(s): 5

Class Hours: 72

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.

High School Subjects 092**Leadership Basics, Part 2**

Credit(s): 5

Class Hours: 72

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.

High School Subjects 095**Basic Skills Supervised Tutoring**

Credit(s): 1.0 - 72

Class Hours: Arranged

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.

High School Subjects 221**Study Skills 1**

Credit(s): 5

Class Hours: 72

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.

High School Subjects 222**Study Skills 2**

Credit(s): 5

Class Hours: 72

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.



High School Subjects 770

Orientation to College

Credit(s): 1.5

Class Hours: 8

Introduces college services and programs. Identifies and explores programs and services designed to assist students entering college credit courses.

HOME ECONOMICS (HOMEC)

Home Economics 520

HSS Consumer Education

Credit(s): 0.5 - 7.5

Class Hours: 24-360

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 (LRN)

Learning 095

Supervised Tutoring

Credit(s): 0

Class Hours: 1 - 72

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.

OLDER ADULTS (OAP)

Older Adults 457

Music Arts for Older Adults

Credit(s): 0

Class Hours: 57-336

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.

Older Adults 518

Creative Cooking for Older Adults

Credit(s): 0

Class Hours: 57-336

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.

Older Adults 802

Seminar for Older Adults

Credit(s): 0

Class Hours: 57-336

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.

Older Adults 823

Manipulative Skills for Older Adults

Credit(s): 0

Class Hours: 57-336

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.

Older Adults 894

Physical Fitness for Older Adults

Credit(s): 0

Class Hours: 57-336

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)

Parent Education 528

Increasing Parent Awareness of U.S. Schools

Credit(s): 0

Class Hours: 132

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.

Parent Education 557

Early Childhood Education: Principles And Practices

Credit(s): 0

Class Hours: 96

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).

Parent Education 558

Early Childhood Care and Development For Family Child Care Providers

Credit(s): 0

Class Hours: 56

Provides knowledge about the care and development of young children for family child care providers seeking state licensing. Open Entry/Open Exit.

Parent Education 562

Health Education for Family Child Care Providers

Credit(s): 0

Class Hours: 24

Provides family child care providers with health and safety information related to licensing. Open Entry/Open Exit.

SECONDARY SUBJECTS GED (HSGED)

Secondary Subjects GED 031

GED Test Preparation

Credit(s): 0

Class Hours: 360

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)

Substantial Disabilities 350

Signing Exact English for Parents of Deaf Children

Credit(s): 0

Class Hours: 50-60

Designed as an introductory course to teach Signing Exact English and the manual alphabet. Open Entry/Open Exit.

Substantial Disabilities 400

Developmentally Disabled Adults Job Coach Training

Credit(s): 0

Class Hours: 180-244

Job Coach instruction/training to assist developmentally disabled adults. Students will acquire the necessary skills to instruct/train developmentally disabled clients. Open Entry/Open Exit.

Substantial Disabilities 495

Personal Development & Grooming for Developmentally Disabled Adults

Credit(s): 0

Class Hours: 65-95

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.



**Substantial Disabilities 788
Independent Living Skills for Adults With
Developmental Disabilities**

Credit(s): 0

Class Hours: 180

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.

VOCATIONAL - BUSINESS (VBUS)

Vocational - Business 118

Introduction to Windows

Credit(s): 0

Class Hours: 60

Provides introductory instruction for learning MS Windows. Introduces students to Windows: navigation, views, commands, file management, desktop customization, Help and other Windows programs; for example, address book and electronic communications. This course or Introduction to Keyboarding I is highly recommended prior to taking other courses taught within the Windows environment. Open Entry/Open Exit.

Vocational - Business 123

**Introduction to Computer Software
Applications**

Credit(s): 0

Class Hours: 72

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.

Vocational - Business 124

Introduction to Keyboarding I

Credit(s): 0

Class Hours: 32

Provides introductory instruction for keyboarding by touch and skill building drills to achieve speed and accuracy. Two high school elective credits may be granted if student completes all the required assignments with a minimum passing grade of 75%. Open Entry/Open Exit.

Vocational - Business 125

Introduction to Keyboarding II

Credit(s): 0

Class Hours: 45

Provides introductory instruction for keyboarding by touch and basic document editing and word processing. Recommended completion of Introduction to Keyboarding I or skills of at least 28 words per minute on timed test. Three High School elective credits may be granted if student completes all the required assignments with a minimum passing grade of 75%. Open Entry/Open Exit.

Vocational - Business 243

Introduction to Customer Service Skills

Credit(s): 0

Class Hours: 72

Provides basic training in customer service techniques, appropriate telephone etiquette, self-management, interpersonal relations, and the attitude and initiative needed to succeed in the workplace. Beginning ESL 3 level or above recommended. 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.

Vocational - Business 244

Intro to Databases Using Microsoft Access

Credit(s): 0

Class Hours: 60

Introductory course for developing simple databases. Includes design concepts, use of database tools, and practice in creating tables, queries, forms, and reports. Recommended for students in ESL Beginning 3 and above who have completed a basic computer operations course. Open Entry/Open Exit.

Vocational - Business 245

**Introduction to Desktop Publishing Using
Microsoft Publisher**

Credit(s): 0

Class Hours: 72

Provides students with basic skills to create publications such as flyers, newsletters, brochures, and invitations with Microsoft Publisher. Content will include demonstration, instructor-led exercises, and independent practice. Keyboarding experience recommended. 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.

Vocational - Business 258

Navigating the Internet

Credit(s): 0

Class Hours: 36

Introduces students to the Internet. Topics include types of internet connections, e-mail, research, and data retrieval techniques. May award 2.5 elective credits if student completes all the required assignments with a minimum passing grade of 75%. Open Entry/Open Exit.

Vocational - Business 259

Orientation to Computers

Credit(s): 0

Class Hours: 72

Provides hands-on experience and knowledge in using a computer. Includes fundamental information on hardware and software and how they work together. Students will learn how to use basic computer applications. 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.

Vocational - Business 260

**Introduction to Word Processing Using MS
Word**

Credit(s): 0

Class Hours: 60

Provides introductory instruction to word processing techniques using a personal computer. Includes the creating, formatting, editing, saving, and printing of simple documents, using the MS Word software. Designed for students who can type by touch. Open Entry/Open Exit.

Vocational - Business 262

Introduction to Spreadsheets Using MS Excel

Credit(s): 0

Class Hours: 60

Provides instruction in basic spreadsheet concepts using typical spreadsheet problems with Microsoft Excel software. Designed for students who have completed a basic computer operations course or equivalent. Open Entry/Open Exit.

Vocational - Business 270

Introduction to Microsoft Outlook

Credit(s): 0

Class Hours: 72

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.

**Vocational - Business 301****Business Skills**

Credit(s): 0

Class Hours: 288

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.

Vocational - Business 302**Introduction to Web Page Development Using HTML**

Credit(s): 0

Class Hours: 60

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.

Vocational - Business 303**Introduction to Electronic Imaging Using Adobe Photoshop**

Credit(s): 0

Class Hours: 60

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.

Vocational - Business 304**Introduction to Electronic Presentations Using Powerpoint**

Credit(s): 0

Class Hours: 60

Provides introductory instruction for development of professional quality, computer-generated presentations using presentation software used in industry. Includes concepts of combining text, graphics, animations and/or sound to create slides for electronic output. Designed for students who have completed a basic computer operations course or equivalent. Open Entry/Open Exit.

Vocational - Business 400**Employability Skills**

Credit(s): 0

Class Hours: 36

Provides students with training on professionalism and communication skills at the workplace. Helps create a career path and goals, career self-assessment, goal setting, skills assessment, exploring various techniques for conducting a job search, writing a resume and cover letter, interviewing techniques, and job-retention strategies. May award 2.5 high school elective credits if student completes all the required assignments with a minimum passing grade of 75%. Open Entry/Open Exit.

Vocational - Business 450**Hardware & Software A+ Preparation, Review, and Practice**

Credit(s): 0

Class Hours: 72

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.

Vocational - Business 559**Business Practices in Family Child Care**

Credit(s): 0

Class Hours: 36

Provides potential family child care providers with information and skills necessary for successful operation of a family child care business. Open Entry/Open Exit.

Vocational - Business 574**Computer Basics: Hardware & Software**

Credit(s): 0

Class Hours: 192

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 elective credits. Open Entry/Open Exit.

Vocational - Business 576**Computer Basics: Systems and Networking Essentials**

Credit(s): 0

Class Hours: 90

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.

Vocational - Business 590**Introduction to How to Start a Small Business**

Credit(s): 0

Class Hours: 72

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.

Vocational - Business 668**Introduction to Automotive Vehicle Maintenance**

Credit(s): 0

Class Hours: 72

Provides an introduction to the modern automobile and normal maintenance service procedures. Safety, tools and vehicle systems will be emphasized. This class will stress a practical approach to vehicle maintenance. 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.

VOCATIONAL - CONSTRUCTION (VCNST)**Vocational - Construction 610****Voc Construction Tech Module I**

Credit(s): 0

Class Hours: 88

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%.



Vocational - Construction 620

Vocational Construction Technology Module II

Credit(s): 0

Class Hours: 192

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%.

VOCATIONAL - HEALTH (VHLTH)

Vocational - Health 799

Introduction to Pharmacy Technology

Credit(s): 0

Class Hours: 32

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.

Vocational - Health 800

Beginning Pharmacy Calculations

Credit(s): 0

Class Hours: 16

This course introduces students to calculations related to drug dosage and preparation of medications. Interconversion of units in the metric and common system of measurement are included. There is emphasis on unit-cancellation for solving pharmacy situation problems, as well as a strong verbal component. (Same as Pharmacy Technology 054A). Open Entry/Open Exit.

Vocational - Health 801

Advanced Pharmacy Calculations

Credit(s): 0

Class Hours: 16

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 alligation methods are included. There is emphasis on unit cancellation for solving pharmacy situation problems as well as strong verbal component. (Same as Pharmacy Technology 054B). Open Entry/Open Exit.

Vocational - Health 895

Paraprofessional Mental Health Worker I

Credit(s): 0

Class Hours: 96

Provides basic skills for general employment as paraprofessional mental health workers. Helps students gain employment, find housing, use community resources, and become financially competent. Promotes an independent life-style. May earn five high school elective credits if student completes all required assignments with a minimum passing grade of 75%. Recommended for Intermediate 2 and above. Open Entry/Open Exit.

Vocational - Health 896

Paraprofessional Mental Health Worker II

Credit(s): 0

Class Hours: 128

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 Intermediate 2 and above. 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.

Vocational - Health 897

Paraprofessional Mental Health Worker III

Credit(s): 0

Class Hours: 128

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 Intermediate 2 and above. 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.



SANTA ANA COLLEGE

**ADMINISTRATORS
AND FACULTY**



SANTA ANA COLLEGE ADMINISTRATORS

Abejar, Esmeralda (2005)

Campus Budget Manager
B.A., California State University, Fullerton

Coopman, Ron (2013)

Assistant Dean, Criminal Justice Academies
B.S., University of La Verne
M.S., California State University, Long Beach

Collins, Michael T. (2012)

Vice President, Administrative Services, Santa Ana College
B.S., Syracuse University, New York
M.P.H., California State University, Long Beach
Ed.D., University of Southern California

Dela Cruz, Maria (2017)

Associate Dean, Counseling
B.A., Perpperdine University
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Ph.D., University of Southern California

Dominguez, Gary (2013)

Director of Fire Instruction
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Grant, Madeline A. (2001)

Dean, Business Division
B.A., University of San Diego
M.B.A., Claremont Graduate School

Hoffman, Bart (2005)

Dean, Human Services and Technology, Career Education and Workforce Development
B.S., California State University, Long Beach
MBA, University of Phoenix

Jaffray, Shelly (1991)

Dean, Humanities/Social Science
B.A., M.A., 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

Kikawa, Eve (1982)

Dean, Fine and Performing Arts/Neally Library Division
B.A., M.A., University of California, Los Angeles

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)

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M.A., Brandman University

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B.A., M.S.W., University of California, Los Angeles

Liang, Mark (2006)

Dean, Enrollment Services
B.A., California State University, Fullerton
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Lipiz, Nilo (1996)

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B.A., California State University, Fullerton
M.A., TESOL, Bilingual Education,
M.A., Education Administration,
California State University, Los Angeles

Lopez, Carlos L. (2016)

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B.A., University of California, San Diego
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Mahany, Donald (2008)

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B.S., Education, Florida State University
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Ph.D., Sport Administration, University of New Mexico

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Associate Dean, Financial Aid
M.B.A., Chapman University

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Associate Dean, Health Sciences
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SANTA ANA COLLEGE FACULTY

Abbey, Troy (2001)

Professor, Kinesiology
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Alduenda, Leann (2015)

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**Castellanos, Mary (1979)***Counseling*

B.A., California State University, San Diego
 M.S., California State University, Fullerton.
 Ph.D., United States International University

Castillo, Ricardo (2011)*Professor, Psychology*

B.A., California State University, Bakersfield
 M.A., California State University, Fullerton

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)*Assistant 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., California State University, San Diego
 M.Ed., Ed.D., University of San Diego

Collins, Monica (2006)*Professor, American Sign Language Program,
Deaf and Hard of Hearing 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)*Assistant Professor, Mathematics*

B.S., Cal Poly 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

Dahlen, Noel (1981)*Professor, Computer Science*

B.S., M.S.E.E., University of California, Santa Barbara
 M.S., Computer Science, Webmaster,
 California State University, Fullerton

Deluna, Daniel (2014)*Assistant Professor, History*

A.A., Saddleback College
 B.A., University of California, Los Angeles
 M.A., California State University, Northridge

Dibb, Patrick (2015)*Assistant Professor, EMT*

A.A., Santa Ana College
 B.S., University of California, Irvine

Diller, Jeffrey (2014)*Assistant Professor, English*

A.A., Riverside City College
 B.A., M.A., California State University, Fullerton

Doolittle, Glenn A. Jr. (1996)*Professor, Global Business and Entrepreneurship*

B.A., University of Texas
 J.D., University of Georgia

Dumon, Dori (2017)*Assistant Professor, Business Applications & Technology*

A.A., Santa Ana College

Dutton, Donald E. Jr. (1987)*Professor, Assistive Technology*

B.A., M.A., California State University, Fullerton

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
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English, Noemi (2014)*Assistant Professor, Diesel Technology*

A.A.S. San Diego Miramar College, San Diego, California
 B.B.A. Northwood University, Midland, Michigan

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

Edward Fosmire (2015)*Assistant Professor, Art History*

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)*Assistant Professor, Child Development and Education Studies*

B.A., University of California, Los Angeles
 M.A., Loyola Marymount University
 Ed.D., University of Southern California

**Gaer, Susan (1995)***ESL/Technology*

M.A., TESL, San Francisco University

M.A., Pepperdine University

Gallego, Robert (1989)*Counseling*

B.A., California State University, Fullerton

M.A., National University

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 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)*Assistant Professor, Adult Secondary Education Faculty Coordinator*

B.A., University of California, Los Angeles

M.S., California State University Fullerton

Ghelfi, Gerald J. (1963)*Professor, History*

B.A., La Sierra College

M.A., Ph.D., Claremont Graduate School

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., California State University, San Diego

Gilreath, Genice (1997)*Professor, Reading*

M.A., California State University, San Bernardino

Giroux, Regina A. (1984)*Professor, Nursing*

A.D.N., Cypress College

B.S.N., California State University, Fullerton

M.S.N., D.N.Sc., University of San Diego

Goldmann, Dan (1975)*Professor, Biological Sciences*

B.S., M.A., University of California, Los Angeles

Gonis, Andy (2005)*Professor, Criminal Justice*

Ph.D., Psychology, Northcentral University

Graduate, FBI National Academy

Gonzaga-Siguenza, Patricia (1996)*Counseling*

B.A., M.S., California State University, Fullerton

Gonzalez, Adrianna (2014)*Assistant Professor, Adult Basic Education /GED*

B.A., University of California, Irvine

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TESOL Certificate, University of Anaheim

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/Ethnic Studies*

B.A., University of California, Santa Cruz

Ph.D., University of California, Los Angeles

Hager, Benjamin (2013)*Assistant Professor, Mathematics*

B.A., M.A., California State University, Fullerton

Hammonds, Glen (1996)*Professor, Automotive Technology*

A.S., Rio Hondo College

B.V.E., California State University, Los Angeles

Hampton, Jubal (2001)*Professor, Biology*

B.S., University of California, Irvine

M.A., California State University, Fullerton

Harding, Glen (2001)*Professor, Computer Science*

B.A., University of California, Berkeley

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Hardy, Michelle (2014)*Assistant Professor, Child Development and Education*

B.A., California State University, Fullerton

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Hassel, Elissa A. (1996)*Professor, ESL*

B.S., University of California, Davis

M.A., Biola University

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

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M.B.A., Heriot-Watt University

Higgins, Conor (2015)*Assistant Professor, English*

A.A., Orange Coast College

B.A., M.F.A., California State University, San Diego

Higgins, Mark (1989)*Professor, English*

B.S., St. Vincent College

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Hoang, Susan (2015)*Assistant Professor, Librarian*

B.A., Pomona College

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Holder, Vera (1988)*Professor, Communication Studies*

B.A., California State University, Long Beach

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B.S., Columbia University
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Hostetter, Darren (2015)

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Huebsch, Mary (2001)

Professor, Communication Studies
B.A., Mount Holyoke College
M.A., University of California, Los Angeles
M.A., California State University, Fullerton

Hughes, Philip (1989)

Professor, Earth Science/Geology
B.S., University of Southern California
M.S., Ohio State University

Hyman, Deborah (2009)

Professor, Occupational Therapy
BSC Honors in Occupational Therapy, University of Witwatersrand
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Isbell, James (2004)

Professor, English
B.A., M.A., Chapman University

Jang, Charles (2014)

Assistant 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
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Ph.D., Walden University,
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Janus, Louise (2011)

Associate Professor, Learning Disability Specialist
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Jenkins, Crystal (2004)

Professor, Chemistry
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Jenkins, Robert (1996)

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Jin, Jungwon (2011)

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Jones, Elliott (2000)

Professor, Music
B.A., M.M., Arizona State University
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Jones, Geoff (2004)

Professor, Kinesiology
B.A., Chapman University
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Jones, Louise (2014)

Assistant Professor, Nursing
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Kashi, Majid (1994)

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B.S., Newcastle Polytechnic, United Kingdom
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Keith, Katharine (1991)

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Kehlenbach, E. Brian (1990)

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Kim, Henry (2001)

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B.S., Civil Engineering, Tehran University, Iran
M.S., Electronic commerce, National University
M.B.A., University of California, Irvine

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Lange, Megan (2017)

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M.A., University of California, Santa Barbara
M.A., California State University, Los Angeles

Lechuga, Janet (2013)

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Leeds, Kelvin (1997)

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Lewis, Michael L. (1996)

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**Little, Charles (1986)**

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B.A., Azusa Pacific University
M.A., University of La Verne

Littlejohn, Stacey (2014)

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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, David A. (1993)

Professor, Instrumental Music/Ethnic Studies
B.M., M.M., University of Arizona

Lopez, Jorge (2007)

Professor, Biology
B.S., University of California, Davis
M.S., University of Chicago
Ph.D., Indiana University

Lopez-Jaurequi, Leticia (1994)

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B.A., Yale University
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Lui, Rachel (2015)

Assistant 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., Humboldt State University

Macdonald, Juli (1996)

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Macintyre, Michelle (2015)

Counseling
B.A., University of Hawaii
M.A., Concordia University
M.A., California Polytechnic State University, San Luis Obispo

Madrigan, Osiel R. (2016)

Assistant Professor/Coordinator, Workforce Development
B.S., M.P.A., San Diego State University
Ed.D., University of La Verne

Madrigan, Romelia (2002)

Coordinator—SSSP/Upward Bound
B.A., California State University, San Diego
Educational Counseling
M.A., National University

Mandir, Joshua (2014)

Assistant 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

Marecek, Lynn (1995)

Professor, Mathematics
B.S., Valparaiso University
M.S., Purdue University
M.A., National University

Marquez, Phil (2011)

Associate Professor, Art
B.A., California State University, Fullerton
M.F.A., Claremont Graduate University

Marr, John (2014)

Assistant Professor, Music
B.A., M.A., California State University, Fullerton

Martinez, Donato (1996)

Professor, English
B.A., California 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)

Assistant Professor, Nutrition & Foods
B.S., California Polytechnic State University, San Luis Obispo
M.S., R.D.N., California State University, Long Beach

McCallick, Mark (2014)

Assistant Professor, Accounting and Business Administration
B.S., Loyola Marymount University, Los Angeles
Certified Public Accountant, State of 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)

Assistant 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
M.A., California State University, Fullerton

Miller, Renee (2006)

Coordinator, Associate Professor ABI/Communication Disabilities
B.A., Speech and Hearing, Cleveland State University
M.A., Speech Pathology, Kent State University

**Mishal, Amit (2015)***Assistant Professor, Mathematics*

B.A., M.A., University of California, Los Angeles

M.A., California State University, Fullerton

Ed.D., University of Southern California

Mitzner, Rita (2006)*Professor, English*

B.A., M.A., Creative Writing

M.F.A., California State University, Long Beach

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)*Assistant Professor, Counselor*

B.A., University of California, Irvine

M.A., Azusa Pacific University

Moreno, George (2007)*Professor, Welding*

A.A., Cerritos College

B.S., California State University, Long Beach

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, Bethlehem, PA

M.A., United States International University, Irvine, CA

TESOL Certificate, University of California, Irvine

Murphy, Tim (2000)*Professor, Political Science*

B.S., M.A., Ball University

Ph.D., University of Cincinnati

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, Michael T. (2001)*Professor, Computer Information Systems*

B.S., M.A., California State University, Los Angeles

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 Polytechnic 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

Orr, Estelle C. (1970)*Professor, Art*

B.A., M.A., University of California, Berkeley

Ortiz, Fernando D. (1996)*Professor, Psychology/Ethnic Studies*

B.A., California State University, Fullerton

M.A., Ph.D., University of California, Riverside

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

Papa, Elenor (2016)*Assistant Professor, Nursing*

B.S., University of California, Riverside

M.S.N., California Baptist

Parolise, Michelle R. (2000)*Professor, Occupational Therapy Assistant Program*

B.S., Colorado State University

M.B.A., California State University, Long Beach

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)*Assistant 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, Department Co-Chair
B.A., California State University, Long Beach
M.L.I.S., University of California, Berkeley

Pierce, Cathryn

Assistant 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)

Assistant Professor, Computer Science
B.S., M.S., California State University, Fullerton

Quinn, Nicole (2017)

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B.A., University of California, Los Angeles
M.A., California State University, Long Beach

Ramirez, Adrian (2017)

Assistant Professor, History
A.A., Santa Ana College
B.A., University of California, Irvine
M.A., University of California, Irvine

Ramirez, Marco A. (1994)

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A.A., Santa Ana College
B.A., University of California, Santa Barbara
M.S., San Diego State University, San Diego

Ramshaw, Charles (2001)

Professor, English
B.A., California State University, Fullerton
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Ro, Kelly (2015)

Assistant 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)

Assistant Professor, English
B.A., California State University, Long Beach
M.A., Chapman University

Rogers, Neal L. (1973)

Professor, Mathematics
B.A., M.S., Ed.D., University of Southern California

Romero, Martin (2014)

Assistant Professor, Mathematics
B.S., University of California, Los Angeles
M.S., California State University, Los Angeles
Ph.D., University of California, Los Angeles

Ross, Kris (2006)

Professor, Fire Technology
B.A., M.A., California State University, Long Beach

Ross Jr., John (2009)

Professor, Economics, Pharmacy Technology
B.S., California State University, Fullerton
CPhT, Santa Ana College

Rudd, James (2014)

Assistant Professor, Automotive Technology
A.A., Cerritos College

Russo, Stacy (2011)

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B.A., University of California, Berkeley
M.L.S., San Jose State University

Sabzevary, Mohammadreza Mirbeik (2017)

Assistant Professor, Mathematics
B.S., M.A., Iran-University of Tehran

Sadler, Dennis (1984)

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A.A., Fullerton College
B.V.E., Career Certificate
M.S., California State University, Long Beach

Salgado, Susana O. (2007)

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B.A., California State University, Los Angeles
Ph.D., University of Oregon

Sanabria, Reina (2001)

Counseling
A.A., Fullerton College
B.S., California State University, Fullerton
M.A., Chapman University

Schroeder, Brian (1989)

Professor, Nursing
B.A., Biochemistry, California State University, Fullerton
B.S.N., M.S.N., Azusa Pacific University

Scoggin, Sally (2001)

Professor, ESL
B.A., Whittier College
M.A., United States International University

Seitz Carol (2016)

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B.A., University of California, Irvine

**Serrano, Maximiliano (2008)**

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A.A., Santa Ana College

Shaffer, Cathie (2006)

Counseling/MESA Program Director
B.A., Psychology, University of California, Irvine
M.S., Counseling and Guidance, California State University, Fullerton

Shahbazian, Roy (2007)

Professor, Mathematics
B.S., M.S., University of California, Irvine

Sherod, Susan (2000)

Professor, Engineering
B.S., University of Illinois at Champaign/Urbana
M.A., California State University, Los Angeles
Registered Architect, C.A., M. Architecture, Newschool of Architecture, San Diego

Shigematsu, Ted (1993)

Professor, Philosophy
A.A., Imperial Valley College
B.A., M.A., California State University, San Diego

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

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)

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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

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B.A., California State Polytechnic University, Pomona
J.D., Southwestern University School of Law
Member of California State Bar

Sneddon, Donald Earl (1978)

Fire Technology
B.S., M.S., California State University, Fullerton

Sneddon, Marta (1991)

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B.A., California State University, Long Beach
M.A., Azusa Pacific University

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B.A., M.A., California State University, Fullerton
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Soriano, Irene (1994)

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B.A., University of Texas at El Paso
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Sos, Brian (2011)

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B.S., M.A., San Diego State University
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Sosta, Rachel (2011)

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Steckler, Mary (2002)

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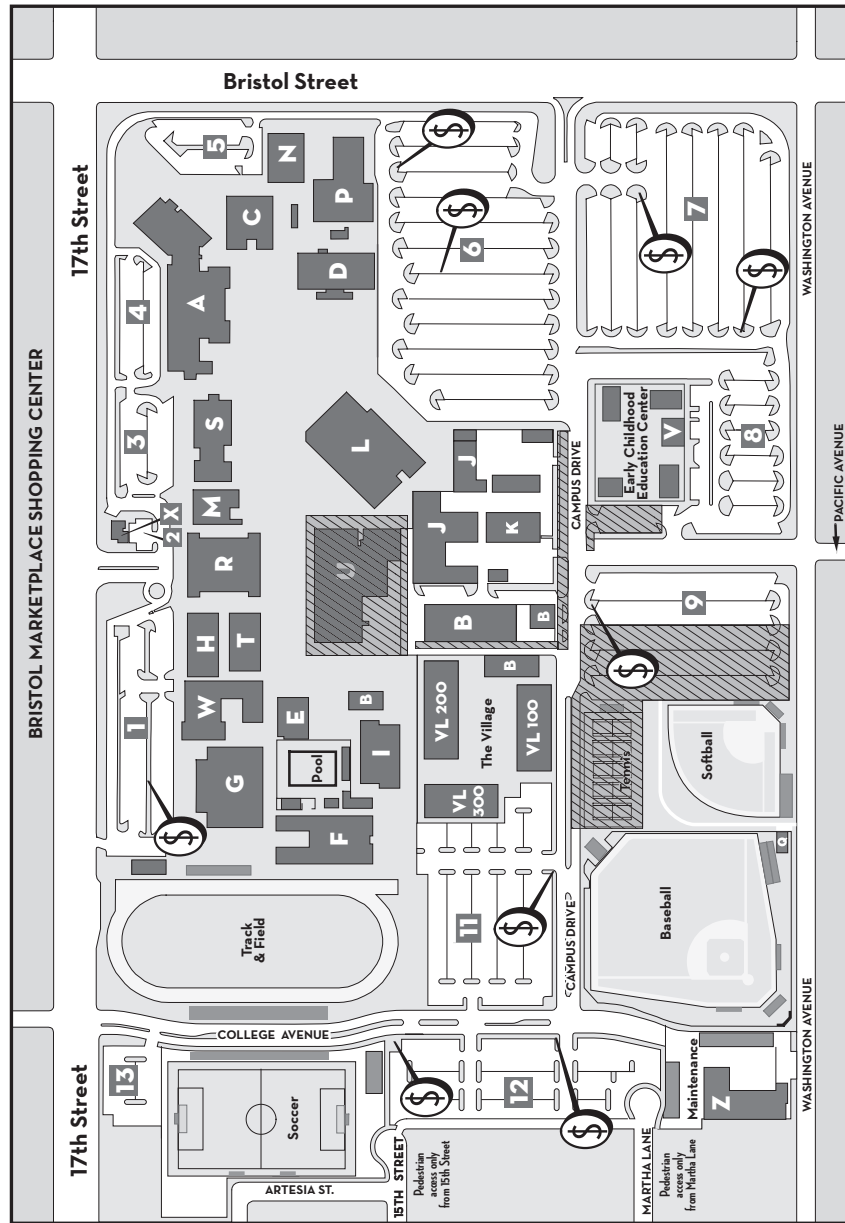
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SAC Facilities and Locations

- A** Cesar Chavez Building /Business / Computer Lab
- B** Middle College High School
- C** Fine Arts / Art Gallery
- D** Dunlap Hall
- E** Fitness Center
- F** Locker Rooms
- G** Cook Gym
- H** Hammond Hall
- I** Classroom Building
- J** Auto Shop / Quick Center
- K** Welding / Auto Diesel
- L** Nealey Library / Media Services
- M** Planetarium
- N** Music Building
- P** Phillips Hall Theatre
- Q** Concession
- R** Russell Hall
- S** Administration Building / Admissions / Counseling
- T** Technical Arts
- U** Johnson Center (Closed)
- V** Early Childhood Educational Center
- VL** The Village (Student Business Office, Campus Store, Grab-n-Go, Health & Wellness, DSPS, EOPS, Financial Aid International Students Program, The Spot, Student Life)
- W** Kinesiology
- X** Security / Safety
- Z** Maintenance

SAC Parking

- 1** Staff Parking
- 2-3** Visitor Parking
- 4-5** Staff Parking
- 6-12** Student Parking (except as posted)
- \$** Permit Dispenser (\$2.00 for 8 hours)

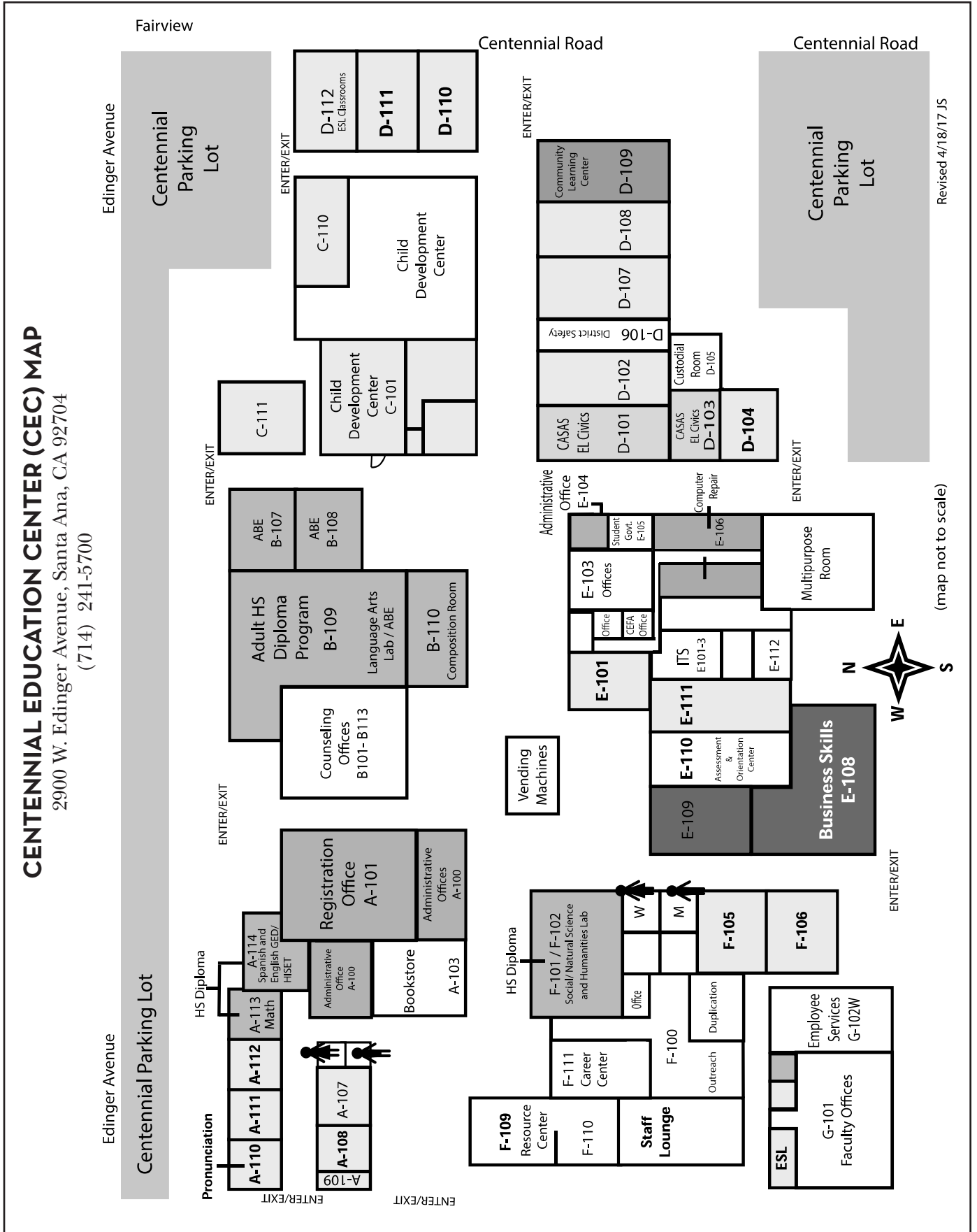


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from the course.	
The first module of the P.O.S.T. Certified Modular Police Academy Program. Grade: Pass/No Pass Only.	
Criminal Justice Academies 099C	
Level 2 Modular Police Academy	
Unit(s): 6.5 - 7.0	
Class Hours: 61.5 Lecture, 166.5 Laboratory total.	
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