## ※if santa ana college

 2013 • 2014

SAC is where I achieve academically \& play softball. Alyssa Yglesias,
Communication


SAC is a great community college with many career options. Nancy Mendez,
English


SAC is the start to my future. Charlie Herrera,
Music


SAC is the furst step to my career.
Vanessa Reconco,
Biology


SAC is a place where you can grow as an individual.
Damien Benson,
Science/Micro Biology


SAC is a college that played a pivotal roll in my life.
Martin E Lopez,
Geography


SAC is my comfort zone.
Jessica Valencia,
Graphic Design


SAC is a newstart to life.

Guilermo Lee,
Musical Theatre/Business Marketing


SAC is a second home.

Angelica Urrutia,
Journalism


SAC is a wonderful college atmosphere.
Wendy Pasillas,
Criminal Psychology


SAC is diverse.

Gonzalo Chavez,
Automotive Technology


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

DIGITAL MEDIA CENTER
1300 South Bristol Street • Santa Ana, CA 92706-3424
714-241-5812

SANTA ANA COLLEGE - ORANGE COUNTY SHERIFF'S REGIONAL TRAINING ACADEMY
15991 Armstrong Blvd. • Tustin, CA 92782
714-566-9200

## RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

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

## SANTA ANA COLLEGE / SANTIAGO CANYON COLLEGE INSTRUCTIONAL CALENDARS

## COLLEGE CREDIT CLASSES <br> INSTRUCTIONAL CALENDAR 2013-2014

FALL SEMESTER 2013

August 19-21
August 22-23
August 26
September 2
September 8
September 27
October 18
November 11
November 17
November 28-30
December 15
December 16-January 5

## SPRING SEMESTER 2014

January 20
January 21-22
January 23-24
January 27
February 9
February 14
February 17
February 28
March 7
March 24-29
March 28
April 27
May 22
May 23
May 25

Faculty projects
Common college flex days
INSTRUCTION BEGINS
Labor Day- holiday
Last day to add and to drop full-term classes
without "W" grade with enrollment fee refund
Last day to file Pass/No Pass
Deadline for Graduation Petition
Veterans' Day - holiday
Last day to drop semester-length
classes with a "W" grade
Thanksgiving - holiday
INSTRUCTION ENDS
Holiday break

King's Birthday - holiday
Faculty projects
Common college flex days
INSTRUCTION BEGINS
Last day to add and to drop full-term classes without "W" grade with enrollment fee refund Lincoln's Birthday - holiday
President's day - holiday
Last day to file Pass/No Pass
Deadline for Graduation Petition
Spring recess
Cesar Chavez Day
Last day to drop semester-length classes with "W" grade
Commencement - Santa Ana College
Commencement - Santiago Canyon College
INSTRUCTION ENDS

SUMMER SESSION 2014
SUBJECT TO CANCELLATION

| May 26 | Memorial Day - holiday |
| :--- | :--- |
| June 16 | INSTRUCTION BEGINS |
| June 20 | Deadline for Graduation Petition |
| July 4 | Independence Day - holiday |
| August 10 | INSTRUCTION ENDS |

## CONTINUING EDUCATION DIVISION INSTRUCTIONAL CALENDAR 2013-2014

FALL SEMESTER 2013

August 19-23
August 26
September 2
November 11
November 25-30
December 21
December 22-January 22
SPRING SEMESTER 2014
January 17, 21, 22
January 23
January 20
February 14-15
February 17
March 28
April 7-12*
May 26
June 5
June 6
June7

## SUMMER SESSION 2014

July 1
July 4
August 9

Faculty projects
INSTRUCTION BEGINS
Labor Day - holiday
Veterans' Day - holiday
Thanksgiving - holiday
INSTRUCTION ENDS
Winter recess

Faculty projects
INSTRUCTION BEGINS
King's Birthday - holiday
Lincoln's Birthday - holiday
President's Day - holiday
Cesar Chavez Day
SCE Spring recess $\dagger$
Memorial Day - Holiday
CEC Commencement
OEC Commencement
INSTRUCTION ENDS

INSTRUCTION BEGINS**
Independence Day - holiday INSTRUCTION ENDS

| JUNE $\mathbf{2 O 1 3}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{S}$ | $\mathbf{M}$ | $\mathbf{T}$ | $\mathbf{W}$ | $\mathbf{T}$ | $\mathbf{F}$ | $\mathbf{S}$ |  |
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| 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |  |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |  |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |  |
| 30 |  |  |  |  |  |  |  |


| JULY $\mathbf{2 O 1 3}$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
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| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 |  |  |  |

AUGUST • 2013

| $\mathbf{S}$ | $\mathbf{M}$ | $\mathbf{T}$ | $\mathbf{W}$ | $\mathbf{T}$ | $\mathbf{F}$ | $\mathbf{S}$ |
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SEPTEMBER • 2013

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| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 |  |  |  |  |  |


| OCTOBER $\mathbf{2 O 1 3}$ |  |  |  |  |  |  |
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| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 |  |  |

NOVEMBER•2O13

| $\mathbf{S}$ | $\mathbf{M}$ | $\mathbf{T}$ | $\mathbf{W}$ | $\mathbf{T}$ | $\mathbf{F}$ | $\mathbf{S}$ |
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| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |

DECEMBER•2O13
$\begin{array}{lllllll}\mathbf{S} & \mathbf{M} & \mathbf{T} & \mathbf{W} & \mathbf{T} & \mathbf{F} & \mathbf{S}\end{array}$
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$2930 \quad 31$

| JANUARY $\mathbf{2 O 1 4}$ |  |  |  |  |  |  |
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| FEBRUARY • 2O14 |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |
| $\mathbf{M A R C H}$ | $\mathbf{2 O}$ |  |  |  |  |  |
| $\mathbf{S}$ | $\mathbf{M}$ | $\mathbf{T}$ | $\mathbf{W}$ | $\mathbf{T}$ | F | $\mathbf{S}$ |
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| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 |  |  |  |  |  |


| APRIL $\mathbf{2 O 1 4}$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
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| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 |  |  |  |


| MAY |  |  |  |  |  |  |  | $\mathbf{2 O 1 4}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{S}$ | $\mathbf{M}$ | $\mathbf{T}$ | $\mathbf{W}$ | $\mathbf{T}$ | $\mathbf{F}$ | $\mathbf{S}$ |  |  |
|  |  |  |  | 1 | 2 | 3 |  |  |
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JUNE 2014

| $\mathbf{S}$ | $\mathbf{M}$ | $\mathbf{T}$ | $\mathbf{W}$ | $\mathbf{T}$ | $\mathbf{F}$ | $\mathbf{S}$ |
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JULY•2014

| $\mathbf{S}$ | $\mathbf{M}$ | $\mathbf{T}$ | $\mathbf{W}$ | $\mathbf{T}$ | $\mathbf{F}$ | $\mathbf{S}$ |
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| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 |  |  |

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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.

## INSTITUTIONAL CORE COMPENTENCIES

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 <br> 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 disciplinespecific 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 of the Western Association of Schools and Colleges, an institutional body recognized by the Council for Higher Education Accreditation, the U.S. Department of Education, and the Veterans Administration. Santa Ana College is also approved by the California Board of Registered Nursing and accredited by the National League for Nursing Accrediting Commission. The college holds membership in the Community College League of California and the American Association of Community and Junior Colleges. Santa Ana College is also approved by the American Bar Association.

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.

## 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 is a part of the California community college system, one of the three segments of public post secondary education in the state.

Rancho Santiago Community College District, located in central Orange County, comprises an area of 193 square miles with a population of approximately 700,000 . The district includes all of the Orange and Santa Ana Unified School Districts and a portion of the Garden Grove Unified School District. The district boundaries extend from the eastern portion of the city of Garden Grove and around the perimeters of Santa Ana, Orange, Villa Park, and Anaheim Hills, east to the Riverside County line.

## RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT



## SANTA ANA COLLEGE \& SANTIAGO CANYON COLLEGE

Santa Ana College opened in 1915 as an upward extension of Santa Ana High School. Of California's 109 public community colleges, it is the fourth oldest. Located first on the campus of Santa Ana High School, it moved to downtown Santa Ana, and then to its present location in 1947. On the other hand, Santiago Canyon College is among the newest community colleges in California. While the Rancho Santiago Community College District was formed to include the cities of Orange, Villa Park and Anaheim Hills in 1971, Santiago Canyon College (formerly Orange Campus) has offered comprehensive programs for students since 1985. It became an independent college July 1, 1997.

Enrollment in district programs in the Fall 2012, totaled 59,319 with 41,854 in college credit courses and 17,465 in classes for Continuing Education students. The Community Services Program serves another 2,721 residents who enroll in non-credit, fee-supported classes. Approximately 3,100 credit classes are offered by the two colleges each semester, leading to Associates of Arts and Sciences degrees in more than 150 transfer and employment majors, as well as
certificates of completion in 75 occupational programs. Metropolitan area television stations also deliver classes through the Community College Television Consortium. In addition, Continuing Education is offered in a variety of non-credit and high school credit courses in over 1000 classes.

## 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 the district's newest college at 8045 E. Chapman Avenue. Opening its first phase of classrooms in fall, 1985, under the name of the Orange Campus, it is situated on 82 acres of land and includes six major buildings, a student center and a full-range of class offerings. The Child Development Center opened in Fall 1991.

## 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. Centennial Education Center 2900 W. Edinger Ave., Santa Ana
6. Orange County Sheriff's Department Training Center 1900 W. Katella Ave., Orange
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 Training Center 18301 Gothard, Huntington Beach

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.

Metropolitan area television stations also bring classes directly into the homes of many citizens through the Community College Television Consortium.

## 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.

## RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

## BOARD OF TRUSTEES

| res | Arianna P. Barrios |
| :---: | :---: |
| Vice President | . Jose Solorio |
| Clerk. | .Lawrence R. "Larry" Labrado |
| Member | Claudia C. Alvarez |
| Member | John R. Hanna |
| Member | Nelida Mendoza-Yanez. |
| Member | Phillip E. Yarbrough |
| Student Trus | . . .Luis Corre |

## RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT ORGANIZATION

CHANCELLOR'S OFFICE
Chancellor
Raúl Rodríguez, Ph.D.
Executive Assistant to the Chancellor Debra Gerard

## HUMAN RESOURCES/EDUCATIONAL SERVICES

Executive Vice Chancellor
. John Didion
Assistant to the Vice Chancellor
Assistant Vice Chancellor .
Employment Services Manager
Risk Management \& Employee Benefits

## EDUCATIONAL SERVICES


BUSINESS OPERATIONS AND FISCAL SERVICES

| Vice Chancellor. | Peter J. Hardash |
| :---: | :---: |
| Assistant to the Vice Chancellor | Linda Melendez |
| Auxiliary Services |  |
| Director | Rhonda Langston |
| Facility Planning |  |

Facility Planning
Assistant Vice Chancellor . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Vacant
District Construction and Support Services
Director.
Darryl Odum

## Fiscal Services

Assistant Vice Chancellor . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Adam O’Connor
Accounting Manager-Accounts Payable . . . . . . . . . . . . . . . . . . . Ruby Morallos
Accounting Manager-Payroll. . . . . . . . . . . . . . . . . . . . . . . . . . Diane Kincheloe
Project Manager
Budget Analysts. .Sheena Tran

Information Technologies Services
Assistant Vice Chancellor . . . . . . . . . . . . . . . . . . . . . . . . . . . . Sylvia LeTourneau
Director-Web Services
Alfonso Oropeza
Director-Academic Support. . . . . . . . . . . . . . . . . Curtis Childress, Nick Quach
Interim Director-Human Services and Fiscal Services. . . . . . . . Doug Johnson
Interim Director-Student System . . . . . . . . . . . . . . . . . . . . . . . . . . Stuart Davis

## Purchasing

Director . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Tracey Conner-Crabbe
Security/Safety
Director-District Safety/Security
Al Chin

## SANTA ANA COLLEGE

| President . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Erlinda J. Martinez, Ed.D. |  |
| :---: | :---: |
| Assistant to the President | Kennethia Vega |
| Director-College Advancement. . . . . . . . . . . . . . . . . . . . . . Christina Romero |  |
| Sports Information Coordinator-Public Affairs . . . . . . . . . . . . . Jason Kehler |  |
| ADMINISTRATIVE SERVICES |  |
| Vice President | Michael T. Collins, Ed.D |
| ACADEMIC AFFAIRS |  |
| Vice President | Linda Rose, Ed.D. |
| Enrollment Reporting Manager | Carl Jaeger |
| Coordinator-Institutional Effectiveness and |  |
| Assessment/Accreditation Liaison Officer | Bonita N. Jaros, Ph.D. |
| Distance Education |  |
| Coordinator. | .Cherylee Kushida |
| BUSINESS DIVISION |  |
| Dean. | Allen Dooley, Ed.D. |
| Academic Computing Center | Michael T. Nguyen |
| Counselor | .Dennis Sadler |
| Accounting and Business Administration |  |
| Chair | Jinhee Trone |
| Business Applications and Technology |  |
| Chair | .Dena Montiel-Childress |
| Computer Science |  |
| Chair | .Noel Dahlen |
| Engineering |  |
| Co-Chairs. . . . . . . . . . . . . . . . . . . . . Susan Sherod / Craig Takahashi, Ph.D. |  |
| Global Business and Entrepreneurship |  |
| Chair . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Madeline Grant |  |
| Paralegal |  |
| Chair | Richard Manzano, J.D. |

## CAREER EDUCATION AND WORKFORCE DEVELOPMENT

Dean. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Bart Hoffman
CTE Transitions Coordinator. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . John Kalko
CTE Counselor . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Maria Rios

## FINE \& PERFORMING ARTS DIVISION

| Dean. | Vacant |
| :---: | :---: |
| Art |  |
| Chair | Irene Soriano, Ph.D. |
| Dance |  |
| Chair | Eve Kikawa |
| Communication Studies |  |
| Chair | Lance Lockwood |
| Communications and Media Studies |  |
| Chair | Charles Little |
| Music |  |
| Chair | Brian Kehlenbach, D.M.A. |
| TV/Video Communications |  |
| Chair | Terry Bales |
| Theatre Arts |  |
| Chair . | Valinda Tivenan |

KINESIOLOGY, HEALTH AND ATHLETICS DIVISION

| Dean | Avie Bridges |
| :---: | :---: |
| Chair | Brian Sos, Ph.D. |
| Counselor | Rey Robledo |
| Head Coach-Baseball | Don Sneddon |
| Head Coach-Basketball-Men | David Breig |
| Head Coach-Basketball-Women | Flo Luppani |
| Head Coach-Cross Country-Women | Miriam Mitzel |
| Head Coach-Football. | Geoff Jones |
| Head Coach-Soccer-Men | Jose Vasquez |
| Head Coach-Soccer-Women | Jessica Rapoza |
| Head Coach-Softball | Kim Nutter |
| Head Coach-Swimming-Women | Michelle Welsh |
| Head Coach-Track \& Field -Women | Miriam Mitzel |
| Head Coach-Volleyball-Women. | Troy Abbey |
| Head Coach-Water Polo-Men | Alfred Reyes |
| Head Coach-Water Polo-Women. | Michelle Welsh |
| Head Coach-Wrestling | Vince Silva |


| Dean. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Shelly Jaffray |  |
| :---: | :---: |
| Counselor | Angela Brown |
| Anthropology/Sociology/Women's Studies |  |
| Chair | . Sandy Wood |
| Economics/Geography |  |
| Chair | Gus Montes |
| English |  |
| Chair | .Matthew Beyersdorf |
| ESL |  |
| Chair | Elissa Hassel |
| Ethnic Studies |  |
| Chair | Angelina Veyna |
| History |  |
| Chair . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Ron Martin, Ph.D. |  |
| Honors Transfer Program |  |
| Coordinator. | Kathy Patterson |
| Learning Center . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Shelly Jaffray |  |
| Modern Languages |  |
| Chair | Javier Galvan |
| Philosophy |  |
| Chair | . Zachary Fish, Ph.D. |
| Political Science |  |
| Chair | . Philippe Andrade, Ph.D. |
| Psychology |  |
| Chair... | Fernando Ortiz, Ph.D. |
| Reading |  |
| Chair ......................... | . . Wenona Kossler |


Co-Chairs...................................Andy Gonis / George Wright
Criminal Justice Academies
Family \& Consumer Studies
Interim Chair ...................................................... . Kyla Benson

## Fire Technology

Assistant Dean of Fire Technology ........................ . Donald Mahany
Director, Fire Education/Fire Academy .............................. Vacant
Coordinator-Fitness Program ....................... Kris Ross, Terri Wann
Coordinator-Fire Officer Program ................. Gary Dominguez
Human Development
Chair ............................................. Gwen Morgan-Beazell



| Coordinator | Michelle Parolise |
| :---: | :---: |



| Bar |  |
| :---: | :---: |
|  |  |

Lead Publications Assistant . . . . . . . . . . . . . . . . . . . . . . . . . . . Connie Jimenez

## LIBRARY DIVISION



## SCIENCE, MATHEMATICS, AND HEALTH SCIENCES DIVISION

Interim Dean . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Cher Carrera
Counselor . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Cathie Shaffer
Biology
Co-Chair . . . . . . . . . . . . . . . . . . . . Jubal Hampton, Kathy Takahashi, Ph.D.
Chemistry
Chair . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Crystal Jenkins
Health Sciences/Nursing
Associate Dean/Director . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Rebecca Miller
Assistant Directors. . . . . . . . . . . . . . . . . . . Gina Giroux, Mary Steckler
Facilitator-EMT. . . . . . . . . . . . . . . . . . . . . . . . . . . . . .Elaine Dethlefsen
Chair . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Mary Steckler

| Mathematics |  |
| :---: | :---: |
| Chair | Michael Everett |
| Medical Assistant |  |
| Chai | Catherine Emley |
| Physical Science |  |
| Co-Chai | Kalko, Phil Hughes |
| STUDENT SERVICES |  |
| Vice President of Student Services | Sara Lundquist, Ph.D. |
| Admissions and Records |  |
| Associate Dean-Admissions \& Records | Mark Liang, J.D. |
| Registrar . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .Christopher Truong |  |
| Counseling Division |  |
| Dean | Micki Bryant, Ph.D. |
| Co-Chairs . . . . . . . . . . . . . . . Mary Castellanos, Rey Robledo, Martha Vargas |  |
| Articulation Officer. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Paula Canzona |  |
| Counselor/Coordinator-MESA . . . . . . . . . . . . . . . . . . . . . . . . . Cathie Shaffer |  |
| Counselor/Coordinator-PUENTE . . . . . . . . . . . . . . . . . . . . . Reina Sanabria |  |
| Counselor/Coordinaror-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-Testing Center. . . . . . . . . . . . . . . Beverly Birnbaum |  |
| EOPS/CARE |  |
| Associate Dean-EOPS. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Christine Leon |  |
| Counselor/Coordinator-CARE/CalWORKs Programs . . . . . . . Ann Lockhart |  |
| Coordinator-EOPS Resource Center . . . . . . . . . . . . . . . . . . . Gabriela Sanchez |  |
| Counselor/Coordinator-YESS Program . . . . . . . . . . . . . . . . . Sylvia Sanchez |  |
| Financial Aid |  |
| Associate Dean-Financial Aid | Robert Manson |
| Coordinator-Student Placement | Janet Grunbaum |
| Veterans Office | Dorothy Swayne |
| SPECIAL SERVICES |  |
| Associate Dean-DSPS . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Vacant |  |
| Alternative Media . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Angela Tran |  |
| Assistive Technology . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Don Dutton |  |
| Coordinator-Communication Disabilities/ABI . . . . . . . . . . . . . Renee Miller |  |
| Coordinator-Deaf \& Hard of Hearing . . . . . . . . . . . . . . . . . . Monica Collins |  |
| Coordinator-Health \& Wellness Center . . . . . . . . . . . . . . . . Rebecca Barnard |  |
| Coordinator-DSPS . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Maria Aguilar |  |
| Coordinator-Scholarship Program . . . . . . . . . . . . . . . . . . Peggy Card-Govela |  |
| Counselor/Coordinator-Testing Center. . . . . . . . . . . . . . . Beverly Birnbaum |  |
| Coordinator-Psych Disabilities . . . . . . . . . . . . . . . . . . . . Susana Salgado, Ph.D. Training Director-Psych Services. . . . . . . . . . . . . . . . . . . . . Phi Loan Le, Psy.D. |  |
|  |  |
| STUDENT AFFAIRS |  |
| Dean. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .Lilia Tanakeyowma, Ed.D. |  |
| Associate Dean-Student Development . . . . . . . . . . . . . . . . . Loy Nash |  |
| Assistant Dean-Student Services . . . . . . . . . . . . . . . . . . . . Teresa Mercad |  |
| Coordinator-Community Services. . . . . . . . . . . . . . . . . . . . . . Lithia Williams |  |
| Coordinator-Gear Up. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . John Vu |  |
| Coordinator-Student Outreach. . . . . . . . . . . . . . . . . . . . . . . . Daniel Marquez |  |
| Student Transition Program. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Luisa Ruiz |  |
| International Students Office . . . . . . . . . . . . . . . . . . . . . . . . Kanana Gitonga |  |
| Service Learning Center Office . . . . . . . . . . . . . . . . . . . . . . . . . . . John Vu |  |
| Coordinator-SSSP/Upward Bound. . . . . . . . . . . . . . . . . . . Romelia Madrigal |  |
| Coordinator-Talent Search . . . . . . . . . . . . . . . . . . . . . . . . . . . Marco Ramirez |  |
| Coordinator-Veterans Upward Bound . . . . . . . . . . . . . . . . . . . Joseph Alonzo |  |
| Career Academy Scholars Program . . . . . . . . . . . . . . . . . . . Amanda Romero |  |
| Veterans Resource Center . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Loy Nashua, J.D. <br> English Language Academy . . . . . . . . . . . . . . . . . . . . . . . . . . . . Kanana Gitonga |  |
|  |  |
| CONTINUING EDUCATION |  |
| Interim Vice President . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . James Kennedy |  |
| Dean-Instruction/Student Services-Santa Ana . . . . . . . . . . . . . . . Nilo Lipiz |  |
| Dean-Instruction/Student Services-Santa Ana . . . . . . . . Sergio Sotelo, Ph.D. |  |
| Associate Dean-Instruction/Student Services . . . . . . . . . . . . Christine Kosko |  |
| Associate Registrar | .Phuong Nguyen |
| Disabled Student Programs \& Services |  |
| Chair | Mary Stephens |
| English as a Second Language |  |
| Co-Chairs . . . . . . . . . . .Susan Gaer, Karen De | Jenkins, Sally Scoggin |

This chart reflects the RSCCD organization as of July 1, 2013

## 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, color, medical condition, genetic information, ancestry, sexual orientation, marital status, physical or mental disability, 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. 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: John Didion, 2323 N. Broadway, Santa Ana, CA 92706, 714-480-7489.

## POLÍTICA DE NO DISCRIMINACIÓN

El Distrito Colegial Comunitario Rancho Santiago está comprometido a ofrecer la igualdad en oportunidades para programas educativos, empleos, y a todo acceso a los programas y actividades institucionales. 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, color, condición médica, información genética, descendencia familiar, orientación sexual, estado civil, discapacidad física o mental, 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 de RSCCD o al Coordinador de Sección 504/ADA de RSCCD: RSCCD Title IX Officer and Section 504/ADA Coordinator: John Didion, 2323 N. Broadway, Santa Ana, CA 92706, 714-480-7489.

## CHÍNH SÁCH BẤT KỲ TH!

Khu Học chánh Đại học Rancho Santiago Community College District luôn tôn trọng cơ hội bình đẳng trong các chương trình giáo dục, trong việc thuê mướn nhân viên, và trong tất cả các chương trình học và sinh hoạt. Khu Học chánh và mỗi cá nhân đại diện cho Khu Học chánh sẽ cung cấp dịch vụ, lớp học và chương trình cho mọi người 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, màu da, tình trạng sức khoẻ, thông tin di truyền, nguồn gốc tổ tiên, khuynh hướng tính dục, tình trạng hôn nhân, có bị khuyết tật hay bệnh tâm thần, hoặc vì cá nhân đó được cho là có một hay nhiều hơn một đặc tính kể trên, hoặc dựa vào sự liên quan của cá nhân đó với một cá nhân hay một nhóm thật sự có hoặc được cho là có một hay nhiều hơn một đặc tính kể trên. Nếu có thắc mắc về việ̣c tuân thủ luật lệ và/hoặc về thủ tục khiếu nại, xin liên lạc viên chức phụ trách chương trình Title IX (Title IX Officer) và/hoặc phối trí viên chương trình 504/ADA (Section 504/ADA Coordinator) của Khu Học chánh. Viên chức chương trình Title IX và chương trình 504/ADA của Khu Học chánh RSCCD là: John Didion, địa chỉ liên lạc là: 2323 N. Broadway, Santa Ana, CA 92706, 714-480-7489.

SANTA ANA COLLEGE
INSTRUCTIONAL AND STUDENT SERVICES

## ACADEMIC COMPUTING CENTER

The Santa Ana College Academic Computing Center 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.

## ASSOCIATE DEGREE

The colleges offer 150 concentrations or majors leading to the associate degree in science or in arts. See index.

## BOOKSTORE

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

## CALWORKS

CalWORKs is the California Work Opportunity and Responsibility to Kids program which provides temporary financial assistance and employment-focused services to families with minor children who have income and property below State maximum limits for their family size. Supportive services offered include: academic, career and personal counseling, assistance with financial aid and admissions, individualized education plans, workshops to achieve and maintain employment skills, tutoring, educational supplies, and job placement/ work study (when available). CalWORKs is located within the EOPS Office in the Johnson Center in U-101.

## CAREER CERTIFICATES

The colleges offer more than 75 occupational career programs leading to a certificate. See index.

## CAREER AND JOB RESOURCE CENTER

The Career and Job Resource Center offers access to computerized resources and hard copy information on careers, training programs, and job placement services as well as workshops. Individuals and entire classes can utilize the center to explore careers. Information is available on local, national and international employment trends.

## 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.

## 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 \& crafts, business \& careers, computers, home \& garden, language, dance, health \& 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 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

Counseling Services provide a variety of programs and procedures through which individuals are brought into the instructional program, assisted in career planning and development, assisted in planning for and pursuing courses of study, and provided with avenues for obtaining employment.

Counseling Services are provided at these educational sites:

Santa Ana College
Centennial Education Center
The Counseling program throughout the district is organized under these major services:

## Academic Advisement

Counselors can help students choose a program of study in relation to their educational objectives. Students are offered assistance in exploring life goals, educational planning, and appropriate course selection. However, the final responsibility for the selection of proper courses rests with the student.

## Career Planning

Counselors can assist students in the development of their career goals and provide information that will indicate the best preparation for reaching these goals.

## Orientation

New students indicating that they plan to complete an A.A. degree or certificate, transfer to a four-year school, or improve basic skills receive an invitation to meet with a counselor on a small group basis. At this orientation/counseling session, the counselor presents information regarding registration and academic program planning.
All new students are encouraged to enroll in Counseling 100 at Santa Ana College. This course provides an introduction to college services and programs and helps clarify educational and career objectives.

## Personal Counseling

Counselors are available to assist students with problems which may be affecting their academic progress. The emphasis is on short-term counseling focused around problem areas or concerns. When appropriate, students may be referred to other professional services in the community. Personal Development Seminars are available. Call 714-564-6100.

## 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 ( $2^{1 / 2}-5$ 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

## DISABLED STUDENTS PROGRAMS AND SERVICES (DSPS)

DSPS provides instructional support services and reasonable accommodations to students with verified disabilities attending Santa Ana College. Program services are designed to ensure that students have an equal opportunity to participate and succeed in college programs and activities.

Students are responsible for requesting DSPS services and for providing appropriate disability verification from a qualified professional. To apply for services, students must meet with a DSPS professional to complete a program application and have their needs evaluated. The type of assistance provided to each student is determined individually depending on the nature and severity of the disability.

## DSPS Main Office

The DSPS main office conducts intakes, provides accommodations, and offers referral services to students with disabilities. The main office currently houses assistive technology, physical disabilities, health related impairments, learning disabilities, psychological disabilities, and intellectual disability services for students. Services include, but are not limited to instructional equipment and wheelchair loans, disability related counseling, gate/elevator passes, mobility orientations, note taking, test accommodations, alternate media, and registration assistance. We also provide a computer lab that offers assistive technology software, which includes JAWS, Zoomtext, Dragon Naturally Speaking, Kurzweil, and CCTV. You can visit our website http://sac.edu/StudentServices/DSPS. For information, call 714-564-6295, 714-5646264 or visit U-103 at Santa Ana College.

## Acquired Brain Impairment \& Communication Disabilities

Students with speech, hearing, language, and medically verifiable brain impairments may receive assistance with program planning, registration, assessment, individual and small group computer assisted instruction. Students with verifiable acquired brain injuries can enroll in special services classes (SPEC N91, N94, N95). For further information, call 714-564-6280 or visit M-105 at Santa Ana College.

## Assistive Technology Center

The Assistive Technology Center, offers computer assisted instruction (SPEC N92) through the use of assistive technology for students with disabilities. Emphasis is on mastering appropriate assistive computer technologies and instruction in Windows, Microsoft Office and Internet/E-Mail access. This class is offered in the fall and spring semesters. For further information, call 714-564-6264 or visit U-103 at Santa Ana College.

## Deaf and Hard of Hearing Services

Students who are deaf, hard of hearing, late deafened or deaf/blind may receive accommodations from the Deaf and Hard of Hearing Services. Accommodations may include, but are not limited to: sign language interpreters, assistive listening devices, computer aided real time captioning, preferential seating, volunteer note takers, academic and vocational advisement, and registration assistance. For more information and to request services, please call 7145646283 (voice), 714-660-3075 (videophone) or stop by U-107 at Santa Ana College.

## Learning Disabilities

The Learning Disability services are designed to help students who have average or above average potential for learning and who exhibit significant difficulties in at least one academic area. Our goal is to enable students to successfully complete college courses. Evaluation and individual educational plans are provided. For information, call 714-564-6264 or visit U-103 at Santa Ana College.

## Psychological Disabilities

The Psychological Disability services are designed to support and assist students with mental and emotional disorders in the academic environment by identifying effective compensation strategies. Emphasis is placed on developing coping skills necessary to complete coursework and make progress towards personal and/ or vocational goals. For more information please call 714-564-6264 or visit U-103 at Santa Ana College.

## WorkAbility III

The objective of this program is to provide work readiness activities, job development, and job placement for students with disabilities. Services include counseling, vocational assessment, and instruction. Students must be Department of Rehabilitation clients. For information, call 714-564-6255 or visit L-220N 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 e-mail 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 oncampus. 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 classess, WebAdvisor and at the Distance Education website, www.sac.edu/disted.

## 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 college recognizes that as a result of financial need, language differences, and academic challenges, some students will need special help for college success. The EOPS program is a state funded effort which provides special services to full-time community college students. Participants must meet financial and educational disadvantage criteria. After eligibility requirements are met, EOPS services may include the following: specialized academic, career and personal counseling, book services, student success, grants, tutoring, Study Skills classes, linked class offerings, early registration, transfer assistance, work experience, financial aid application assistance, and special activities and workshops.

EOPS also offers C.A.R.E. (Cooperative Agencies Resources for Education) to EOPS single parents on CalWORKs with children under the age of fourteen. C.A.R.E. services are in addition to EOPS, and may include additional job training/ work experience, book service, grants, bus passes, personal counseling and advisement, and group support activities.

EOPS services are available at Santa Ana College, Johnson Center, Room U-101, 714-564-6232
www.sac.edu/studentservices/EOPS.

## FINANCIAL AID SERVICES

Financial aid is available to eligible students in meeting the costs of books, supplies, tuition and living costs. See pages 14-15.

## HEALTH AND WELLNESS CENTER

The Health and Wellness Center is located at Santa Ana College in room U-120. Currently enrolled students who have paid the health fee are eligible for services. The Health and Wellness Center is staffed by registered nurses. Physicians and psychologists are available by appointment. All services are provided without charge, except a nominal fee for laboratory tests and some medical procedures.
Emphasis is on health maintenance and wellness promotion. Health services available include the diagnosis and treatment of acute short-term illnesses, first-aid, psychological counseling, health maintenance and wellness promotion literature, blood pressure checks, tuberculin skin testing, community referrals, first-aid care, emergency contraception, pregnancy tests, pap smears. Emergency care and accident insurance coverage for class related injuries are also provided.

Santa Ana College is an alcohol and drug free campus with specific designated smoking areas.

Refer to the current class schedule for scheduled hours at the Health and Wellness Center.

## 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.

## INDIVIDUALIZED INSTRUCTION

In basic skills of reading and mathematics, students may enroll in individualized programs that permit them to complete courses under the supervision of an instructor, but at their own learning speed. The college also offers a number of courses every semester by way of television in the home.

## 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.

## INTERNATIONAL STUDENT PROGRAM

A limited number of international students (F-1 Visa) are eligible for admission to the college each year.
The International Student Program is located in the Santa Ana Campus, (714-564-6047).

## INTERCOLLEGIATE SPORTS

The college offers a full range of intercollegiate athletic competition for both men and women in football, basketball, baseball, cross country, track, golf, swimming, water polo, volleyball, soccer, softball, and wrestling.

## LEARNING CENTER

The Learning Center is located in Dunlap Hall D-301 and D-307 at Santa Ana College The Learning Center offers a wide selection of resources providing students with skills and strategies to promote their academic success. Services include supplemental learning (DLAs), conferencing/tutoring, computer-aided instruction, and workshops in the following subjects: reading, writing, English for the Multilingual student (EMLS), modern foreign languages, and communications. All services are free to SAC students, and appointments are not necessary. Class orientations can be arranged for the first week of the semester. It is staffed with instructors, trained tutors and learning assistants. For further information, please call 714-564-6569.

## LIBRARY SERVICES

The Nealley Library of Santa Ana College, one of two libraries of the District, is centrally located on the first floor of the L building. Our 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 intercampus 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 our $\mathrm{Wi}-\mathrm{Fi}$ 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.

## PUBLIC AFFAIRS

Information and publicity regarding district programs and activities is 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.

## 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. See page 13.

## 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.

## SUCCESS CENTER

The Success Center, located in L-206 at Santa Ana College, is an academic skills learning center that provides individualized instruction using a wide range of technology. Students can enroll in an Essential Skills Course (IDS N04), or Adult Basic Education, which provides computer aided individualized instruction in reading, language arts, mathematics, English, and writing. Entrance to the Success Center is through L-123 on the south side of the Library building. For further information, please call 714-564-5420.

## SUMMER SESSION

The colleges offer a 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.

## TESTING CENTER

The Testing Center is located on the second floor of the Santa Ana College library, room 221. 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 testing services, call 714-564-6148.

## TRANSFER CENTER

The 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.

## 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 caravaning, 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.

## 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 Benefits, specialized orientations and workshops, academic counseling and/or referrals for VA approved educational plans,and opportunities to meet and socializewith other veterans at the college. RanchoSantiago Community College District is approvedby the California Bureau for PrivatePostsecondary and Vocational Educationfor the training of veterans and eligiblepersons. Please call for additional informationor assistance (714-564-6050) or cometo our office at SAC in R-101.

## Eligibility

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 housing allowance (BAH), book stipend, and tuition/fees.
Veterans with a service-connected disability may be eligible for vocational rehabilitation (Chapter 31). This program provides eligible veterans with a monthly allowance 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. These applicants should seek information regarding eligibility from the VA Regional Office, Los Angeles, phone 1-800-827-1000 or 1-888-442-4551.

## Applying for Benefits

Each veteran and eligible person who wishes to enter a college in the Rancho Santiago Community College District must follow the admissions procedures. See index for details on enrolling. A copy of discharge paper-DD214, is required of new Chapter 30/33 veterans and a copy of DD2384 of new Chapter 1606/1607 reservists who are using their educational benefits for the first time. VA forms are available online www.sac.edu/vrc or at the VRC, please call 714-564-6050 or visit us at SAC R-101.

## Transcripts and Program Approval

VA regulations stipulate that prior creditmust be evaluated by the end ofthe second semester of attendance. If therequired transcripts are not on file, the VAOwill not be able to certify payment beyondthe second semester. To avoid any delay in payments, the VAO requests that all officialtranscripts be on file with the Admissions Office by the end of the first semester of attendance.

Veterans and eligible persons must have each course approved prior to registering for each semester. VA requires that the VAO monitor progress towards a specific degree plan. Therefore, for payment purposes, students must select a major and take only those courses on the student educational plan specifically required for that major. College counselors are available to provide comprehensive counseling services for day and evening students, phone 714-564-6100 for an appointment. If you have attended previous schools, official transcripts must be on file before a college program can be approved by the counselor.

## Military Credit

Three units for health education and one unit for exercise science may be granted on the basis of military service. When a veteran petitions for graduation and needs these units for graduation purposes, VAO will verify a request for credit from the DD214. 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.

## General Information

The Veterans Administration will only payeducational benefits for the period of timethat each course is active as shown by thebeginning and ending dates in the class schedule. Students must be enrolledat least half time, ( 6.0 units-regularsessions and 3.0 units-mini and summersessions) to be eligible for regular payment.Under Chapter 33 , students must be morethan half time and have at least one campus-based course to receive BAH. A veteran oreligible student attending less than half timecan be reimbursed tuition and fees, not toexceed the normal monthly rate for a half time student. Veterans and eligible persons whowish to receive benefits must notify the VAO at the beginning of each semester by completing a VA benefit request form. Satisfactory progress must be maintained by all VA applicants. A veteran or eligible student may enroll in open circuit television classes. All those collecting VA educational benefits Are required to immediately report any Changes of classes, both adds and drops, to The Veteran Affairs Office.

Veterans and eligible dependents/spouse who are on academic probation, below 2.00 grade point average (GPA), or course completion 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 below 2.00 GPA deficiency. A student who is on academic probation shall have VA educational benefits payments suspended after showing two semesters without satisfactory progress towards graduation requirement of 2.00 GPA . In such instances, a student must petition for recertification and must show a counselor-approved program indicating what course of action must be completed to maintain satisfactory progress towards graduation requirements.

## 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.

## WOMEN'S PROGRAMS AND SERVICES

There are multiple activities and courses of special interest to women. A unique program is offered which provides a network of interrelated services to assist students in acquiring the information and encouragement needed to help them achieve goals. New Horizons at Santa Ana College offers counseling, job search support, college credit and fee based courses of particular interest to women.

## 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 within the EOPS Office in the Johnson Center in U-101.

## 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 supplied to each student enrolling in Counseling 100 and are also available in the Student Activities Offices, and during registration.
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 714-564-6210.

## STUDENT ACTIVITIES

The ASG, Inter-Club Council (ICC) and Student Activities 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, blood drives, BBQ's and concerts, pep rallies, 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 in the Johnson Campus Center, telephone number 714-564-6210.

## CAMPUS CENTERS

The Johnson Campus Center, named in honor of Dr. John E. Johnson, President Emeritus of Santa Ana College, is a focal point for student life at Santa Ana College. Recreational facilities, food services,

Student Lounge, the Student Activities Office, Student Health Center, and ASB/ICC offices are located in the center. The Facilities Office at Santa Ana College will reserve rooms for use. Call 714-564-6227.

## CLUBS, ORGANIZATIONS, AND INTER-CLUB COUNCIL (ICC)

Numerous student interest groups are active throughout the year. Representatives from each club participate in the InterClub Council (ICC), a coordinating body functioning to promote participation in student life.

## 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.
All prospective student-athletes with questions about eligibility for intercollegiate athletics are encouraged to contact the Athletic Director at 714-564-6900.

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. 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 in the Johnson Campus Center at Santa Ana College, call 714-564-6242 or visit our web page at www. sac.edu/StudentServices/FinancialAid/.

## Withdrawals \& 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 $\$ 582$ to $\$ 5,645$ 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 maximum award amount at Santa Ana College is $\$ 600$ 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 <br> 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 less 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 interestsubsidy on this loan, and interest begins to accrue when the loan is disbursed

## CALIFORNIA STATE PROGRAMS

Board of Governors Fee Waiver (BOGW)
The BOGW is a state program for California residents to waive 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 you are 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.

## Cal Grants

To qualify for a Cal Grant a student mustbe a U.S. citizen, a permanent residentor an eligible non-citizen who is a California resident, or be registered as an AB540 student with Admissions \& Records.The student must be attending an eligible collegelocated in California and be making satisfactoryacademic 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 fouryear 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 $\$ 1,551$. 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 $\$ 576$ 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 of vocational school, in a program of study from four months to two years in length. Three-year hospital based nursing students are also eligible for this program.

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

## 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.

## 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 1930.

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 3.0 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 twelveunit 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 eligiblity by the chapter advisor. Permanent members are announced each year in May at the Scholarship \& Awards Program.

## 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 broadbased 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 alum 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, en-
dowments, 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.

ADMISSIONS AND RECORDS INFORMATION

## ADMISSION REQUIREMENTS

## Who May Attend

High school graduate
OR
Person in possession of a California high school proficiency certificate

OR
Person 18 years of age or older who can profit from instruction

OR

High school student qualifying for Career Advanced Placement program.

## HOW AND WHEN TO APPLY

New students and students returning after an absence of one or more semesters must file an application on-line for admission to the college (summer is not counted).

All applications are completed on the CCCApply website. Applications are processed within 24-72 hours. An email will be sent with your WebAdvisor Login and other student information. The WebAdvisor Login and student ID for former students will always remain the same. You may then go online, change your password, and view your registration appointment date and time.

## Application dates:

Fall semester. . . . . . . . . . . beginning April 1 Spring semester . . . . beginning November 1 Summer session......... . beginning April 1

## HOW TO PREPARE FOR PROPER COURSE PLACEMENT AND REGISTRATION (MATRICULATION PROGRAM)

Matriculation helps students achieve their educational goals by matching student skills, needs and goals to the college's courses, programs and services. Students who have information about their skills will make the best educational choices.

To assist you in successfully reaching your academic goals, we request that you complete our assessment, orientation and advisement program called matriculation. All students who meet one of the following conditions should complete this program.

1. Plan to accumulate 15 units at a college in the Rancho Santiago Community College District.
2. Plan to enroll in an English composition, reading, English as a Second Language (ESL), or math course.
3. Work toward an Associate Degree, occupational certificate, transfer to a four-year university, or new career.
4. Students with bachelor's degrees or higher are exempt from matriculation.

## Assessment

Tests in English, reading, English Language Development, math, and chemistry are provided to help you determine your present skill level so that you can select appropriate classes with the help of a counselor. Consult the testing schedule that is listed in the Schedule of Classes to schedule an appointment for placement testing go to www.sac.edu, click on Admissions and records, then click on Testing Center, or contact the Testing Center at 714-564-6148.
For English, there are two tests. The College Test of English Placement (CTEP) is for students who have studied English and/ or ESL (English as a Second Language) in school for at least seven years or who use English frequently on a daily basis. The other test, the Test of English Language Development (TELD) is for students who have not studied English and/or ESL or EMLS in school for at least seven years or who do not use English frequently on a daily basis. Students taking the TELD will be referred to English for Multilingual Students classes. Students who take the wrong test may be placed in a class that is not right for them. By the time you and the teacher realize that you are in the wrong class, it may be too late to register for the appropriate class.
The Math Diagnostic Testing Project (MDTP) has four different levels. Choose the level you feel you are best prepared for. Sample questions for each test are available in the Testing Center on the Testing Center web site and in the math study center.
If you have attended another college and feel that you have already completed the necessary coursework in English, reading, math and/or chemistry, please bring official transcripts to the counseling department. Please bring official test results, indicating course placement to the Testing Center.
For students needing accommodations when taking a placement test, please contact the Disabled Student Program and Services office by calling 714-564-6295 or visiting U-103 at Santa Ana College.

## Orientation

Upon completion of testing, students will be referred to an orientation session with a counselor. The counselor will present information about classes, programs, and requirements and will explain your test results.

## Advisement

After orientation, students will meet with a counselor to plan courses based on test
results, individual needs, assessments, interests and educational goals.

## HOW TO REGISTER FOR CLASSES

 Continuing StudentsA continuing student is a student who attended the previous semester. The student may check online Via WebAdvisor for their registration date and time and may register any time thereafter until 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.

1. Students identified as matriculating students must complete testing and orientation prior to their registration time.
2. Students not identified as matriculants also receive a registration date by email. Students are encouraged to use assessment, advisement and other matriculation components in planning class programs. Students are requested to complete the matriculation package after completing twelve units, when enrolling in general education courses numbered 100 and above, or when enrolling in courses or programs requiring prerequisite assessment of skills. Consider enrolling in a counseling course the first semester and meet with a counselor to develop a long-range educational plan.

## Loss of Enrollment Priority

The state of California has adopted a new law, Title 5 Regulation 58108 (j), establishing enrollment priorities for students attending California Community Colleges. The regulation will affect the time in which students 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: 1) student is not in good academic standing because cumulative GPA has fallen below 2.0 for two consecutive semesters and is on academic probation; 2) student has earned 100 or more degree applicable units from Santa Ana and Santiago Canyon Colleges.
Students can submit a petition for appeal. Students who are not in good academic standing can appeal for the following reasons: 1) there was extenuating circumstances (verified cases of accident, illness) and can provide documentation; 2) can dem-
onstrate SIGNIFICANT academic improvement in a subsequent term. 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

Late registration is held during the first two weeks of instruction. Procedures during this period are shown in the schedule of classes.

## SCHEDULE OF CLASSES

The Schedule of Classes is prepared each semester. It includes general information, courses offered, hours, rooms, and instructor names. Schedules are available before registration in the bookstore. Classes added to the schedule after publication may be seen on the web.

## 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 been admitted to the college and meets the approved course prerequisites.

## STUDENT PHOTO IDENTIFICATION CARD

A student is eligible for a photo identification card after paying for classes and the photo I.D. fee. Photo I.D. is located in the Cashier's Office in S-104. This card facilitates student use of the Library, Health and Wellness Center, computer laboratories, the Admissions Office, and a variety of college services. Current fees are listed in the schedule of classes.

## 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.

## CAREER ADVANCED PLACEMENT PROGRAM (CAP)

The Career Advanced Placement program makes the curriculum of Santa Ana College available to high school students approved by their counselors and appropriate college administrators. Details are available in high school counseling offices. See page 21 for use of CAP for high school credit.

## RESIDENCY

All students are classified as either a resident of the State of California or nonresident when applying for admission. A "resident" is a student who has residence in the state for more than one year before the initiation of a semester or term (EC 68017), based on the "Residence Determination Date" (RDD) which is the day immediately preceding the opening of instruction applies to U.S. citizen, permanent residents, and persons holding certain visas that allow for residence. A non-resident is a student who has not established residence in the State of California for one year as of the residence determination date.

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 you hold 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- $1 / \mathrm{P}-$ 2/P-3/P-4, Q, TN/TO, you must present your 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 nonresidents 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 Admissions and Records Office when he or she applies:
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. 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.
d. Students who are 20 years old or younger and served by the California Foster Care System.
e. 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 "California Nonresident Tuition Exemption Request" form (AB540) 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. Nonresident 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 "nonresidents".
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.

## 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, and December 1 for the spring semester. A $\$ 25.00$ 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 ( $\mathrm{C}+$ or higher).
2. International students must have sufficient knowledge of English to enable them to profit from instruction at the college level. Adequacy of English proficiency is determined by a satisfactory score (450+) on the Test of English as a Foreign Language (TOEFL), administered worldwide by the Educational Testing Service, Box 899, Princeton, New Jersey 05840.
3. International students must be at least 18 years of age unless they are graduates of an accredited United States high school.
4. Students on the F-1 Visa must present evidence that they have financial resources to defray costs during the period of attendance at the college. Approximate annual costs for a student enrolled in 12 units each semester are: a nonresident tuition fee of $\$ 5,136.00$; health insurance, $\$ 1,278.00$; textbooks and supplies, $\$ 800.00$; living expenses, $\$ 12,000.00$, enrollment fee $\$ 1,104.00$, other fees $\$ 211.00$ for a total of $\$ 20,265.00$. 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 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.


## 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.

## ABSENCE/DROP

It is the student's responsibility to withdraw officially from a course.
However, because of enrollment demand a student may be dropped by the instructor when not appearing at the first class meeting.

A student may be dropped for excessive absences when the total hours of absences exceed $10 \%$ of the total, scheduled hours of the class.
Under extenuating circumstances, a student may be reinstated by the instructor.

## AUDITING

Santa Ana College does not permit auditing of classes.

## DROP FOR NON-PAYMENT

Drop for Non-payment Policy: Enrollment fees must be paid in full within 3 days of registration (including weekends and holidays) or your unpaid classes will 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.

## 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 ( $\$ 15.00$ for summer and 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 \& Records Office.
3. A parking permit is required each semester for students parking on campus. It may be purchased at registration.
4. A Student Service fee of $\$ 7.50$ is payable at registration for classes. The fee includes $\$ 2.50$ for a Photo ID for college services: (1) Library, Student and Instructional Services; and (2) \$5.00 for college activities. Photo ID and semester validation is available at Santa Ana College and Santiago Canyon College. These services and fees are optional.

## Nonresident Tuition

The nonresident tuition for out-of-state residents and foreign resident students is $\$ 214.00$ per unit in addition to the enrollment fees.

## 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.

## REFUND OF TUITION (NONRESIDENT)

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 submits the withdrawal form to the Admissions Office.

No refund will be processed until assurance has been given that any check in payment for tuition has been cleared.

## REFUND OF ENROLLMENT FEES

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 Schedule of Classes for details of the refund policy and procedures.

## There is no refund for variable units not

 completed.
## 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 2009, the "completion rate" represents those students who earned an Associates Degree, Certificate of Achievement, or 60 UC/CSU transferable credits within three years.

## 2009 COHORT COMPLETION



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

## 2009 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.

## 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.

## RIGHT TO FILE A GRIEVANCE REGARDING MATRICULATION

Any student who feels that he/she has been discriminated in the matriculation process (assessment, orientation, advisement) may file a grievance with the Matriculation Coordinator. For additional information call 714-564-6078.

## RIGHT TO REVIEW AND CHALLENGE RECORDS

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

1. The right to inspect and review the student's education records within 30 days of the day the college receives a request for access.
Students should submit to the Registrar, or Associate Dean of Admissions, written requests that identify the record(s) they wish to inspect. The College official will make arrangements for access and notify the student of the time and place where the records may be inspected.
2. The right to request the amendment of the student's education records that the student believes is inaccurate.
Students may ask the college to amend a record that they believe is inaccurate. They should write the college official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate.
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.
3. 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.]
4. 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.

## 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.

## GRIEVANCE PROCEDURES FOR STUDENTS

Rancho Santiago Community College District does not discriminate on the basis of race, color, national origin, ancestry, reli-
gion, creed, sex, age, or handicap in its employment or in its educational programs and activities. Students may file a grievance when they believe they have been discriminated against in any of these areas.

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.

The purpose of these grievance procedures is to resolve differences as fairly and expeditiously as possible while preserving the right 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 ten (10) days following the event which prompted the grievance

> The Associate Dean, Student De- velopment will assist the student in arrang-ing an appointment between the student and staff member.
2. If the difference is not satisfactorily resolved, the student shall confer with the person's supervisor.

The Associate Dean, Student Development will assist the student in arrang-ing an appointment between the student and the staff member'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 prescribed form with the Vice President of Student Services, no later than ten (10) days after conferring with the person's supervisor.
4. The grievance form shall be completed in full and shall include a full description of the grievance, times, dates and pertinent facts and the remedy sought by the student.

A Student Grievance Staff Response form will be sent to both the staff member and a supervisor for completion.
5. The Vice President of Student Services shall select a Student Grievance Panel. The administrator involved then shall 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 the 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


## 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 a 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 Student Code of Conduct (page 32) for specific policies.

## 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 12 pm and from $1-4 \mathrm{pm}$; 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."

## COLLEGE POLICIES

## 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)

## 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. Students with Academic Renewal Without Course Repetition are not eligible for Academic Honors. 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 $\mathrm{A}, \mathrm{B}$, 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.

A student may petition the Admissions and Guidance Committee two or more years after recording of the substandard work to have up to 20 units of below C, lower division, work at any institution disregarded in the computation of the grade point average by completing the Academic Renewal without Course Repetition form.
To be eligible, the student must have completed 30 letter grade units with a grade point average of 2.0 or complete 15 letter grade units with a grade point average of 3.0 in semesters or sessions of academic enrollment from the beginning of the renewal period. Units will be counted from the semester immediately following the substandard work. All semesters following cannot contain any substandard grades.
The petition shall require the approval of the Admissions and Guidance Committee, and the permanent academic record shall be annotated in such a manner that all work remains legible. Petition approved work will not count toward graduation or general education certification requirements. Students approved for Academic Renewal are not eligible for Academic Honors. After AA/AS degree, or CSU or IGETC certification has been applied for and is posted, academic renewal is not accepted.
Academic renewal at a college in the Rancho Santiago Community College District does not guarantee that other institutions will approve such action. This determination will be made by the respective transfer institutions.

## CAREER ADVANCED PLACEMENT PROGRAM (CAP)

High School Career Advanced Placement Student or "CAP" Student are 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.
- Be sure to 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 you do in class completing assignments and homework.
- 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 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.

## 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. 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.

| Advanced Placement Exam | SAC Course(s)/ <br> Units Awarded (can also be used on Plan A) | CSU-GE (Plan B) <br> Certification Area/ Semester Units Awarded ${ }^{1}$ | CSU Minimum Semester Units Granted ${ }^{2}$ | IGETC (Plan C) <br> 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 <br> 3 units | N/A | 3 units | N/A | 5.3 units <br> (5.3 units maximum combined credit for all three Studio Art exams) |
| Studio Art: 2-D | ART 110 <br> 3 units | N/A | 3 units | N/A | 5.3 units <br> (5.3 units maximum combined credit for all three Studio Art exams) |
| Studio Art: 3-D | ART 111 <br> 3 units | N/A | 3 units | N/A | 5.3 units <br> (5.3 units maximum combined credit for all three Studio Art exams) |
| Biology | BIOL 109 <br> 3 units | Area B2 and B3 4 units | 6 units | Area 5B with lab 4 units | 5.3 units |
| Calculus AB | $\text { MATH } 180$ <br> 4 units | Area B4 3 units | 3 units (only one Calculus exam may be applied toward CSU degree) | Area 2A 3 units | 2.7 units <br> (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 exam may be applied toward CSU degree) | Area 2A 3 units | 5.3 units <br> (5.3 units maximum combined credit for both Calculus exams) |
| Calculus BC/AB Subscore | MATH 180 <br> 4 units | Area B4 3 units | 3 units (only one Calculus exam may be applied toward CSU degree) | Area 2A 3 units | 2.7 units <br> (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 with lab 4 units | 5.3 units |
| Chinese Language and Culture | Plan A <br> Area C <br> 3 units | Area C2 3 units | 6 units | Area 3B and 6A 3 units | 5.3 units |


| Advanced Placement Exam | SAC Course(s)/ <br> Units Awarded (can also be used on Plan A) | CSU-GE (Plan B) Certification Area/ Semester Units Awarded' | CSU Minimum Semester Units Granted ${ }^{2}$ | IGETC (Plan C) Certification Area/ Semester Units Awarded ${ }^{3}$ | UC Minimum Semester Units Granted ${ }^{4}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Computer Science A | CMPR 121 <br> 3 units <br> (with SAC CMPR <br> department <br> approval) | N/A | 3 units (only one Cmpr 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 Cmpr exam may be applied toward a CSU degree) | N/A | 2.7 units (2.7 units maximum combined credit for both Cmpr exams) |
| Economics: <br> Macroeconomics | $\begin{aligned} & \hline \text { ECON } 120 \\ & 3 \text { units } \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Area D2 } \\ & 3 \text { units } \end{aligned}$ | 3 units | Area 4 3 units | 2.7 units |
| Economics: Microeconomics | $\begin{aligned} & \text { ECON } 121 \\ & 3 \text { units } \end{aligned}$ | Area D2 3 units | 3 units | Area 4 3 units | 2.7 units |
| English: Language and Composition | ENGL 101 <br> 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 <br> 4 units | $\begin{aligned} & \text { Area A2 and C2 } \\ & 6 \text { units } \end{aligned}$ | 6 units | $\begin{aligned} & \text { Area } 1 \mathrm{~A} \text { or } 3 \mathrm{~B}^{5} \\ & 3 \text { units } \end{aligned}$ | 5.3 units (5.3 units maximum combined credit for both English exams) |
| Environmental Science | BIOL 200 or <br> ENVR 200 <br> 3 units | Area B1 and B3 4 units <br> (B1 and B3, or B2 and B3 if test taken prior to $\mathrm{F}^{\prime}$ 09) | 4 units | Area 5A with lab 3 units | 2.7 units |
| French Language | FREN 101 and 102 10 units | Area C2, 3 units ( 6 units if passed prior to F '09) | 6 units | Area 3B and 6A 3 units | 5.3 units |
| French Literature | $\begin{aligned} & \text { Plan A, Area C } \\ & 3 \text { units } \end{aligned}$ | $\begin{aligned} & \text { Area C2 } \\ & 3 \text { units }{ }^{6} \end{aligned}$ | 6 units | $\begin{aligned} & \hline \text { Area 3B and 6A } \\ & 3 \text { units } \end{aligned}$ | 5.3 units |
| German Language | 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 | $\text { GEOG } 102$ <br> 3 units | Area D5 3 units | 3 units | Area 4 3 units | 2.7 units |
| Government \& Politics: Comparative | $\begin{aligned} & \text { POLT } 201 \\ & 3 \text { units } \\ & \hline \end{aligned}$ | Area D8 <br> 3 units | 3 units | Area 4 <br> 3 units | 2.7 units |
| Government \& Politics: United States | $\begin{aligned} & \text { POLT } 101 \\ & 3 \text { units } \end{aligned}$ | Area D8 3 units and completion of the US Const. \& Govt. portion of the US Hist. Const. \& Am. Ideals requirement ${ }^{7}$ (US-2) | 3 units | Area 4 3 units and completion of the US Const. \& Govt. portion of the CSU US Hist. Const. \& Am. Ideals requirement ${ }^{7}$ (US-2) | 2.7 units |
| History: European | $\begin{aligned} & \hline \text { HIST } 102 \\ & 3 \text { units } \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Area C2 or D6 } 6^{5} \\ & 3 \text { units } \end{aligned}$ | 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. \& 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. \& Am. Ideals requirement ${ }^{7}$ (US-1) | 5.3 units |
| History: World | HIST 101 and 102 6 units | $\begin{aligned} & \text { Area C2 or D6 } \\ & 3 \text { units } \end{aligned}$ | 6 units | Area 3B or $4^{5}$ 3 units | 5.3 units |
| Italian Language and Culture | $\begin{aligned} & \text { Plan A, Area C } \\ & 3 \text { units } \end{aligned}$ | $\begin{aligned} & \text { Area C2 } \\ & 3 \text { units } \\ & \hline \end{aligned}$ | 6 units | $\begin{aligned} & \text { Area 3B and 6A } \\ & 3 \text { units } \\ & \hline \end{aligned}$ | 5.3 units |
| Japanese Language and Culture | $\begin{aligned} & \text { Plan A, Area C } \\ & 3 \text { units } \\ & \hline \end{aligned}$ | Area C2 <br> 3 units | 6 units | Area 3B and 6A 3 units | 5.3 units |
| Latin: Literature | $\begin{aligned} & \text { Plan A, Area C } \\ & 3 \text { units } \end{aligned}$ | Area C2 3 units ${ }^{6}$ | 6 units | Area 3B and 6A 3 units | 2.6 units |
| Latin: Vergil | $\begin{aligned} & \text { Plan A, Area C } \\ & 3 \text { units } \end{aligned}$ | Area C2 3 units | 3 units | Area 3B and 6A 3 units | 2.6 units |
| Music Theory | MUS 111 and 112 8 units | Area C1 3 units $^{6}$ | 6 units | N/A | 5.3 units |


| Advanced Placement Exam | SAC Course(s)/ <br> Units Awarded (can also be used on Plan A) | CSU-GE (Plan B) <br> Certification Area/ Semester Units Awarded ${ }^{1}$ | CSU Minimum <br> Semester Units Granted ${ }^{2}$ | IGETC (Plan C) <br> Certification Area/ Semester Units Awarded ${ }^{3}$ | UC Minimum Semester Units Granted ${ }^{4}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Physics B | PHYS 279 and 289 8 units | Area B1 and B3 4 units $^{8}$ (6 units if passed prior to $\mathrm{F}^{\text {'09 }}$ ) | 6 units | Area 5A with lab 4 units | 5.3 units <br> (5.3 units maximum combined credit for all three Physics exams) |
| Physics C (Electricity and Magnetism) | PHYS 227 <br> 4 units | Area B1 and B3 4 units $^{8}$ | 4 units | Area 5A with lab 3 units | 2.7 units <br> (5.3 units maximum combined credit for all three Physics exams) |
| Physics C (Mechanics) | PHYS 217 <br> 4 units | Area B1 and B3 4 units $^{8}$ | 4 units | Area 5A with lab 3 units | 2.7 units <br> (5.3 units maximum combined credit for all three Physics exams) |
| Psychology | $\text { PSYCH } 100$ <br> 3 units | Area D9 <br> 3 units | 3 units | Area 4 3 units | 2.7 units |
| Spanish Language | SPAN 101 and 102 10 units | Area C2, 3 units ( 6 units if passed prior to F '09) | 6 units | Area 3B and 6A 3 units | 5.3 units |
| Spanish Literature | 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 |
| Statistics | MATH 219 4 units | Area B4 3 units | 3 units | Area 2A 3 units | 2.7 units |

${ }^{1}$ All CSU campuses will accept the minimum units toward fulfillment of the designated General Education-Breadth area if the examination is included in full or subject area certification; individual CSU campuses may choose to accept more units than those specified towards completion of general education breadth requirements.
${ }^{2}$ This column reflects the number of units each campus system-wide will minimally grant for each exam. These units count toward eligibility for admission. Some CSU campuses may award more than the minimum units listed in this column. That information can be found in each CSU catalog.
${ }^{3}$ Each AP exam may be applied to one IGETC area as satisfying only one course requirement, with the exception of Language Other Than English. There is no limit on the number of exams that can be applied to IGETC. Exams may be used regardless of when the exam was taken.
${ }^{4}$ This column reflects the number of units each campus system-wide will grant for each exam. These units count toward eligibility for admission.
${ }^{5}$ AP exam may be used in either area regardless of where the SAC discipline is located.
${ }^{6}$ Students seeking CSU-GE certification prior to transfer must have passed this test before F ' 09 .
${ }^{7}$ This examination only partially fulfills the CSU US History, Constitution, and American Ideals graduation requirement but can be used toward the requirement. (Please note that no AP exam fulfills the California State and Local Government portion, US-3). See a counselor for more information.
${ }^{8}$ If a student passes more than one AP exam in Physics, only six units of credit may be applied to the baccalaureate, and only four units of credit may be applied to certification of CSU GE.

## CLASSIFICATION OF STUDENTS

Career Advanced Placement - one who has not been 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.

## 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.

Repeatable Courses: when it is identified as repeatable in the Class Schedule and College Catalog.

Certain activity, performance and skill courses have been designated as repeatable courses and are identified in the catalogs' course descriptions. These courses may not be taken more than four times. A student may not repeat a course to change a grade of a course identified as repeatable in the college catalog. All grades earned within the repeatability sequence will count as completed courses regardless of grade earned. After four attempts on one repeated course, two substandard grades may be replaced. An exception to this policy is the student who is working toward a certificate and/or associate degree in a particular discipline which requires more than four courses in one or more activities.

Significant Lapse of Time: Students may repeat a course where the student has received a satisfactory grade of "C" or better and there has been a significant lapse of time since completion of the course. Santa Ana College defines a "significant lapse of time" as three (3) calendar years. 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 statue or regulation. Pursuant to Title 5 Section 55040, of the California Code of Regulations, Santa Ana College has adopted the following policy with regard to repeating courses for which the student has certified or documented that course repetition is legally mandated.

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
(Continued on next page)

## THE COLLEGE-LEVEL EXAMINATION (CLEP) POLICIES

Santa Ana College will grant credit to currently enrolled studens 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. See a counselor for more information. Submit official copies of CLEP test scores to the SAC 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 CLEP exams will be used to meet requirements at their transfer institution as policies may differ from SAC.

| 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' | 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 <br> 3 units | 3 units |
| Analyzing and Interpreting Literature | Area C 3 units | 3 units | Area C2 <br> 3 units | 3 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 <br> 3 units | 3 units |
| Freshman College Composition | N/A | 0 units | N/A | 0 units |
| Humanities | Area C 3 units | 3 units | Area C2 <br> 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) | 12 units $^{3}$ (Required Score of 59) | Area C2 ${ }^{3}$ 3 units (Required Score of 59) | 12 units (Required Score of 59) |
| German Level I | N/A | 6 units $^{3}$ | N/A ${ }^{3}$ | 6 units |
| German Level II | Area C 3 units (Required Score of 60) | 12 units $^{3}$ (Required Score of 60) | Area C2 ${ }^{3}$ 3 units (Required Score of 60) | 12 units (Required Score of 60) |
| Spanish Level I | N/A | 6 units $^{3}$ | N/A ${ }^{3}$ | 6 units |
| Spanish Level II | Area C 3 units (Required Score of 63) | 12 units $^{3}$ <br> (Required <br> Score of 63) | Area C2 ${ }^{3}$ <br> 3 units <br> (Required <br> Score of 63) | 12 units (Required Score of 63) |
| HISTORY AND SOCIAL SCIENCES |  |  |  |  |
| American Government | $\begin{aligned} & \text { Area B1 or B2 } \\ & 3 \text { units } \end{aligned}$ | 3 units | Area D8 <br> 3 units | 3 units |


| College-Level Examination Program Exam | SAC GE (Plan A) Area/Units | Total SAC Associate Degree Semester units Granted | CSU-GE (Plan B) Certification Area/Semester Units ${ }^{1}$ | CSU Minimum Semester units Granted ${ }^{2}$ |
| :---: | :---: | :---: | :---: | :---: |
| History, United States I | Area B1 3 units | 3 units | Area D6 and US-1 ${ }^{5}$ <br> 3 units | 3 units |
| History, United States II | Area B1 3 units | 3 units | Area D6 and US- $1^{5}$ <br> 3 units | 3 units |
| Human Growth and Development | ${ }^{\text {A rea B2 }}$ <br> 3 units | 3 units | Area E1 <br> 3 units | 3 units |
| Introduction to Educational Psychology | N/A | 3 units | N/A | 3 units |
| Introductory Psychology | Area B2 <br> 3 units | 3 units | Area D9 <br> 3 units | 3 units |
| Introductory Sociology | Area B2 <br> 3 units | 3 units | Area D10 <br> 3 units | 3 units |
| Principles of Macroeconomics | Area B2 <br> 3 units | 3 units | Area D2 <br> 3 units | 3 units |
| Principles of Microeconomics | Area B2 <br> 3 units | 3 units | Area D2 <br> 3 units | 3 units |
| Social Sciences and History | N/A | 0 units | N/A | 0 units |
| Western Civilization I | Area B2 <br> 3 units | 3 units | Area C2 or D6 ${ }^{4}$ <br> 3 units | 3 units |
| Western Civilization II | Area B2 <br> 3 units | 3 units | Area D6 <br> 3 units | 3 units |
| SCIENCE AND MATHEMATICS |  |  |  |  |
| Biology | Area A 3 units | 3 units | Area B2 3 units | 3 units |
| Calculus | Area E2 <br> 3 units | 3 units $^{6}$ | Area B4 <br> 3 units | 3 units |
| Chemistry | Area A 3 units | 3 units | $\begin{aligned} & \text { Area B1 } \\ & 3 \text { units } \end{aligned}$ | 3 units |
| College Algebra | Area E2 ${ }^{6}$ <br> 3 units | 3 units $^{6}$ | Area B4 3 units | 3 units |
| College Algebra Trigonometry | Area E2 ${ }^{6}$ <br> 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 <br> 3 units | 3 units $^{6}$ | Area B4 <br> 3 units | 3 units |
| Trigonometry | Area E2 <br> 3 units | 3 units $^{6}$ | Area B4 <br> 3 units | 3 units |

${ }^{1}$ All CSU campuses will accept the minimum units toward fulfillment of the designated General Education-Breadth area if the examination is included in full or subject area certification; individual CSU campuses may choose to accept more units than those specified towards completion of general education breadth requirements.
${ }^{2}$ This column reflects the number of units each campus system-wide will minimally grant for each exam. These units count toward eligibility for admission. Some CSU campuses may award more than the minimum units listed in this column. That information can be found in each CSU catalog.
${ }^{3}$ If a student passes more than one CLEP test in the same language other than English (e.g., two exams in French), then only one examination may be applied to the associate degree or to the baccalaureate. For each test in a language other than English, a passing score of 50 is considered "Level I" and earns six units of credit; the higher score listed for each test is considered "Level II" and earns additional units of credit and placement in Plan A, Area C and Plan B, Area C2, as noted.
${ }^{4}$ CLEP exam may be used in either area regardless of where CLEP discipline is located.
${ }^{5}$ This examination only partially fulfills the CSU US History, Constitution, and American Ideals graduation requirement but can be used toward the requirement. (Please note that no CLEP exam fulfills the California State and Local Government portion, US-3.) See a counselor for more information.
${ }^{6}$ Also fulfills Santa Ana College Math Proficiency.
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.

## CREDIT BY EXAMINATION

1. Applications for credit by examination may be obtained in the Admissions and Records Office at Santa Ana College. The student will be advised whether a testing fee is to be charged and where it should be paid. Applicants must be currently enrolled at Santa Ana College and be in good standing.
2. The list of courses which may be challenged for credit by examination is available in the division offices at Santa Ana College.
3. Except in the case of Registered Nursing courses, the student must not enroll in a course which is to be challenged. In the event a student decides to challenge a course in which he or she is already enrolled, he or she must withdraw from that course prior to the end of the second week of instruction.
4. Credit may be earned only for courses that are: 1) currently listed in the catalog, and 2) specifically designated by the appropriate dean as courses that are eligible for credit by examination. A student may attempt credit by examination only once in a particular course.
5. Students should be aware that some divisions offer credit by examination only on specific dates; therefore, students should obtain examination schedules from the appropriate offices as early in the semester as possible.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.

## 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.

## GRADES AND GRADE POINT AVERAGE

Grades are based upon the quality of work done; 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) |

## GRADE REPORTS

Grades are available online via WebAdvisor after the end of the semester.

## HONORS PROGRAM AND HONORS COURSES

The Honors Program at Santa Ana College offers honors sections of transferable general education courses. These seminar type classes are further characterized by close interaction with Honors 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 minimally "priority consideration for admission," and in some instances guaranteed admission. These transfer institutions include: California State University, Fullerton, College of Business and Economics, California State University Stanislaus, La Sierra University, Pomona College, Pitzer College, Occidental College, Chapman University, San Diego State University, UCLA, UCI, UCR, UC Santa Cruz, Whitman College in Washington, and Pacific University in Oregon.
- 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.

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 Program must submit a completed application packet (located in the Honors Program Coordinator's office in room 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)
- One of the following: A DTLS score which qualifies the student for English 101; completion of English 061 or EMLS 112 with a grade of "C" or higher; ACT score of 15; SAT score (combined) of 1000 , with 450 minimum on either the verbal or math section.
- Two references

The philosophy of honors studies at the colleges 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 Program, as long as they meet any one of the following guidelines:

- Students who have a minimum cumulative 3.0 GPA , or
- 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.
Honors Transfer Program members who have completed English 101 or English 101 H with a minimum grade of "C" and also been in the HTP for at least one semester may also earn up to eight units of honors credit (no more than two courses' worth of credit) through honors project contracts. Contracts will earn honors credit only when both the work for the contract and the regular coursework in the UCtransferable course tied to the contract has been completed and has earned a grade of "C" or better. Contracts require the approval of the instructor of record for the course, the area division dean, and the HTP Coordinator. Contract forms are available at the Honors Program Coordinator's office. For more information, contact the Honors Program Coordinator, Kathy Patterson
(714-564-6528) at Santa Ana College.


## HOURS BY ARRANGEMENT

Students are obligated to carry out hours by arrangement in designated facilities, which are normally available from 8:00 a.m. to 10:00 p.m., Monday through Thursday, and 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. 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.

## INDEPENDENT STUDY

Independent study allows students to pursue projects under faculty advisement and

## INTERNATIONAL BACCALAUREATE 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. 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) <br> Area/ <br> Units Awarded | CSU-GE (Plan B) Certification Area/ Semester Units Awarded ${ }^{1}$ | CSU Minimum Semester Units Granted ${ }^{2}$ | IGETC (Plan C) <br> 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) <br> 3 units | 5.3 units |
| Chemistry HL | Area A 3 units | Area B1 3 units | 6 units | Area 5A (without lab) <br> 3 units | 5.3 units |
| Economics HL | Area B2 3 units | Area D2 3 units | 6 units | Area 43 units | 5.3 units |
| Geography HL | Area B2 3 units | Area D5 3 units | 6 units | Area 43 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) $\mathrm{HL}^{7}$ | 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) $\mathrm{HL}^{7}$ | 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) $\mathrm{HL}^{7}$ | 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) $\mathrm{HL}^{7}$ | Area C3 units | Area C2 3 units ${ }^{6}$ | 6 units $^{6}$ | Area 3B and 6A 3 units | 5.3 units |
| Language B (any language) $\mathrm{HL}^{7}$ | Area C 3 units | N/A | 6 units $^{6}$ | Area 6A 3 units | 5.3 units |
| Mathematics HL Passing Score: 4 | 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 43 units | 5.3 units |
| Theatre HL | Area C 3 units | Area C1 3 units ${ }^{6}$ | 6 units $^{6}$ | Area 3A 3 units | 5.3 units |

${ }^{1}$ All CSU campuses will accept the minimum units toward fulfillment of the designated General Education-Breadth area if the examination is included in full or subject area certification; individual CSU campuses may choose to accept more units than those specified towards completion of general education breadth requirements.
${ }^{2}$ This column reflects the number of units each campus system-wide will minimally grant for each exam. These units count toward eligibility for admission. Some CSU campuses may award more than the minimum units listed in this column. That information can be found in each CSU catalog.
${ }^{3}$ Each IB exam may be applied to one IGETC area as satisfying only one course requirement, with the exception of Language Other Than English. There is no limit on the number of exams that can be applied to IGETC. Exams may be used regardless of when the exam was taken.
${ }^{4}$ This column reflects the number of units each campus system-wide will grant for each exam. These units count toward Eligibility for admission.
${ }^{5}$ IB exam may be used in either area regardless of where the SAC discipline is located.
${ }^{6}$ Score of 4 or higher required for CSU Credit.
${ }^{7}$ The IB curriculum offers language at various levels for native and non-native speakers. Language B courses are offered at the intermediate level for non-natives. Language A1 and A2 are advanced courses in literature for native and non-native speakers, respectively.
${ }^{8}$ Also fulfills Math Proficiency.
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 indicated as Independent Study 199.

Independent study projects are normally for one unit of credit and require a minimum of 48 hours of directed work per unit of credit. Within the 48 -hour minimum the instructor meets with each student on a weekly basis for at least one hour or a minimum of 16 hours for each one-unit project. The proposed project must be approved by the supervising instructor and the dean, with notification to the Vice President, Academic Affairs. Normally projects are for one unit. Independent study may be repeated for credit for a maximum of three units. Recommended projects of more than one unit must also have prior approval from the Vice President, Academic Affairs. Independent study is offered on a pass/no pass basis.

Independent study projects are normally undertaken in the department or division of the student's academic major. Exceptions to this rule must be approved by both the division dean of the student's academic major and the division dean to which the student is applying for exception.

To be eligible for independent study a student must be concurrently enrolled in at least one other class at either Santa Ana College or Santiago Canyon College and must show evidence of competence in his academic major and the area in which he proposes to do independent study.

## OPEN COURSES

The policy of this district is that, unless specifically exempted by statute or regulation, every course, course section, or class, reported for state aid, wherever offered and maintained by the district, shall be fully open to enrollment and participation by any person who has been admitted to the college and who meets such prerequisites as may be established pursuant to regulations contained in Article 2.5 (commencing with Section 55200) of Sub Chapter 1 of Chapter 6 of Title 5 of the California Code of Regulations.

## PASS/NO PASS

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

1. Courses in the student's major field may not be taken under the Pass/No Pass policy except 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.
2. Every university has a limitation on the number of courses/units that can be taken for Pass/No Pass and applied to graduation and may require General Education taken Pass/No Pass to be retaken for a letter grade. Universities 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.
3. Except as in item number one above, a maximum of 6 Pass/No Pass units may be carried during any one semester.
4. A maximum of 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.
5. Pass/No Pass petitions are available at the Admissions and Records Office at Santa Ana College, and must be submitted between the first and fifth week of the fall and spring terms or thirty percent $(30 \%)$ of the term, whichever is less. Pass/No Pass status cannot be changed back to a letter grade. A \& G petitions will not be approved.
6. Pass indicates a " C " or better.

## PREREQUISITES AND COREQUISITES 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 you should see the words Prerequisite or Corequisite in the catalog, it is important for you 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.

## PREREQUISITE CHALLENGE POLICY AND PROCEDURES COURSE PREREQUISITE POLICY

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

1. Courses for which specific prerequisites have been established,
2. Sequential course work in a degreeapplicable 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 fle in the office of the Vice President of Academic Affairs at Santa Ana College.

## PROBATION - DISMISSAL

A student's academic standing is calculated and reviewed at the end of each fall and spring semester, based only on their 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 Probation Intervention

Students placed on academic 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.

## Removal From Probation

1. Academic probation. A student on academic 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 their 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 where the petition is denied. 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 nondegree 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.

## SEXUAL HARASSMENT POLICY

It is the policy of the Rancho Santiago Community College District to provide an educational, employment and business environment free of unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct or communications constituting sexual harassment, as defined and otherwise prohibited by State and Federal law.

The Rancho Santiago Community College District forbids any form of sexual harassment. Prompt disciplinary action will be taken against any student or employee engaging in sexual harassment.

If you feel that you have been the victim of sexual harassment please contact the Rancho Santiago Community College District Vice Chancellor of Human Resources at 714-480-7489 or the Associate Dean of Student Development at 714-564-6211.

## STUDENTS AND STUDENT SERVICES

## Procedures for Student Grievances Regarding Grades

Education Code 76224 states:
(a) When grades are given for any course of instruction taught in a community college district, the grade given to each student shall be the grade determined by the instructor of the course and the determination of the student's grade by the instructor, in the absence of mistake, fraud, bad faith, or incompetency, shall be final.

## Procedure

1. Student shall meet with the instructor to discuss the grade.
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.
2. 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.
3. The student may be requested to set-up an appointment with the appropriate Division Dean to discuss the written grievance.
4. The appropriate Division Dean will review the allegations and consult with the instructor.
5. The Division Dean will review the issue and will notify the student and instructor in writing of his/her decision.
6. The decision of the Division Dean is final.

## 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-Counseling.

A summer session load should not exceed the equivalent of one unit per week or approximately nine units for an 8-week session. Exceptions may be approved as above on the basis of the same criteria.

## 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. 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.

## 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.

## 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.

## 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 12 th 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.

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 Cosmetology, 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 a college official 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 districtowned 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 typewritten 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:
(a) Accessing with or without permission, or causing to be accessed without authorization, altering, damaging, deleting, hacking, destroying, or otherwise using any data, computer, computer system, computer software and programs, or computer network belonging to or used by the college or any member of the District.
(b)Accessing with or without permission, taking, copying, or making use of any data from a computer, computer system, or computer network, or taking or copying any supporting documentation, whether existing or residing internal or external to a computer, computer system, or computer network belonging to or used by the college or District.
(c) Using or causing to be used, computer services without permission.
(d) Disrupting or causing the disruption of computer services or denying or causing the denial of computer services to an authorized user of a computer, computer system, or computer network belonging to or used by the college or District.
(e) Introducing any computer contaminant or virus into any computer, computer system, or computer network belonging to the college or District.
(f) Sending any message using any computer system or network without authorization or sending any message in the name of another person or entity.
(g) Using any account or password without authorization.
(h)Allowing or causing an account number or password to be used by any other person without authorization.
(i) Accessing or causing to be accessed, downloading or causing to be downloaded, pornographic or obscene materials except when accessing such material which is part of the instructional process or assignment for a class in which the student is currently enrolled.
(j) Use of systems or networks for personal commercial purposes.
(k) "Cyberstalking", which is to be understood as any use of the college or district computer system, computer network, or computer programs to stalk another person via excessive messages or inquiries, inappropriate or threatening messages, racially motivated communications, photos or other means of communication.
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.

## 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 Collegewide sanctions.

EDUCATIONAL OPTIONS

## ASSOCIATE DEGREES

The general education coursework required for the associate degree at Santa Ana College is listed on page 38 (Plan A).

Completion of the general education pattern for the California State University listed on page 40 (Plan B) or the Intersegmental Transfer Curriculum "IGETC" listed on page 41 (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).

Courses intended to fulfill the major requirements may not be taken under the Pass/No Pass option.

## Associate Degree for Transfer ${ }^{\text {" }}$

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

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

Santa Ana College currently offers six AA-T degrees: Communication Studies, Elementary Teacher Education, Political Science, Psychology, Sociology and Theatre Arts. Additional majors are under development. For the latest information please go to www. sac.edu. To find out which CSU campuses accept each degree, please meet with a SAC counselor. An AA-T or AS-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.

For SAC majors offering an AA-T or AS-T degree students may choose to earn the AA-T or AS-T (option 2) OR an alternate degree(s) for the major (option 1), but not both. Exceptions to this can be made and will be considered for students submitting a petition for Exception to Academic Regulation. Pleae see page 39 for additional information about these degrees.

## CERTIFICATE OF ACHEIVEMENT 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.

## CERTIFICATE AND ASSOCIATE DEGREE PROGRAMS AT SANTA ANA COLLEGE (SAC)

AA-T = Associate in Arts for Transfer* AS-T = Associate in Science for Transfer* D = AA/AS Degree* $\quad$ CA = Certificate of Achievement* $\quad$ CP $=$ Certificate of Proficiency

| PROGRAM |  |  |  | PROGRAM |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ** Accounting |  |  | CA CP | ** Human Development |  |  |  |
| American Sign Language |  |  | CA | ** International Business |  |  | CA |
| Anthropology |  | D |  | ** Kinesiology |  |  | CA |
| ** Art |  |  | CA CP | Liberal Arts |  | D |  |
| ** Automotive Technology |  |  |  | ** Library Technology |  |  |  |
| Biological Science |  | D |  | ** Management |  |  | CA CP |
| Black Studies |  | D |  | ** Manufacturing Technology |  | D | CA CP |
| Business |  | D |  | ** Marketing |  | D | CP |
| ** Business Applications and Technology |  |  | CA CP | Mathematics |  | D |  |
| Chemistry |  | D |  | ** Medical Assistant |  |  | CA |
| Chicano Studies |  | D |  | Modern Languages |  | D |  |
| ** Communication Studies | AA-T | D |  | ** Music |  | D | CP |
| ** Communications and Media Studies |  |  |  | Nursing |  | D |  |
| Community Social Services |  | D |  | ** Nutrition and Dietetics |  | D | CA |
| ** Computer Information Systems |  |  | CA CP | Occupational Therapy Assistant |  | D |  |
| ** Computer Science |  |  |  | ** Paralegal |  | D | CA |
| ** Criminal Justice |  |  | CA CP | ** Pharmacy Technology |  | D | CA CP |
| ** Dance |  |  |  | Philosophy |  | D |  |
| ** Diesel Technology |  |  | CA CP | ** Photography |  | D | CA |
| Earth Science |  | D |  | Physics |  | D |  |
| Economics |  | D |  | ** Political Science | AA-T | D |  |
| ** Education | AA-T | D | CA CP | ** Psychology | AA-T | D |  |
| ** Engineering |  |  | CA CP | Science |  | D |  |
| English |  | D |  | Social Science |  | D |  |
| ** Entrepreneurship |  |  |  | ** Sociology | AA-T | D |  |
| Ethnic Studies |  | D |  | Speech-Language Pathology Assistant |  | D |  |
| ** Fashion Design |  | D | CA | ** Television/Video Communications |  | D | CA CP |
| ** Fire Technology |  |  | CA CP | ** Theatre Arts | AA-T | D | CP |
| Geography |  | D |  | ** Welding Technology |  | D | CA |
| Geology |  | D |  | Women's Studies |  | D |  |
| History |  | D |  |  |  |  |  |

[^1]** See current SAC catalog for additional options under these titles.

## Certificate of Proficiency indicated with a CP will not appear on the transcript.

THE ASSOCIATE DEGREE

## GENERAL EDUCATION PHILOSOPHY

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

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

1. The ability to comprehend and communicate ideas logically, creatively, correctly, and effectively in speaking and writing.
2. Skills in creative and critical thinking, including analysis, synthesis, evaluation, problem-solving, decision-making, and quantitative reasoning.
3. The skills necessary to identify informational needs; seek, access, evaluate and 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 38 for specific course requirements.

## GENERAL EDUCATION CATGORIES

## 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: 2013-2014

## 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 AA-T or AS-T degree. 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 38 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.

## 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 9 units of general education courses for the Associate Degree in Areas A (Natural Sciences) - 3 units; B (Social and Behavioral Sciences) - 3 units each in B1 and B2.
B. Mathematics
5. Completion of Mathematics 080/081 or any other 3 unit mathematics course numbered above the level of 080/081, OR
6. Score on the SAC/SCC mathematics placement test indicating placement in a mathematics course numbered above the level of $080 / 081$.

## V. Oral Communication Requirement

Completion of 3 units with a grade of "C" or better from the following: Communication Studies 101 or 101 H (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: Transcripts from all colleges attended must be on file.

## GENERAL EDUCATION REQUIREMENTS FOR THE ASSOCIATE DEGREE

## PLAN A: 2013-2014

NOTE: See page 37, 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 $(\mathrm{V})$, 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 units)

Anthropology 101, 101L
Astronomy 109, 110 or $110 \mathrm{H}, 140$
Biology 109 or 109H/109L, 111, 115, 149, 177, 200, 211, 239, 259
Chemistry 109, 119, 209, 210, 219 or 219H
Earth Science 110 or $110 \mathrm{H}, 115,150$ or 150 H
Environmental Studies 140, 200, 259
Geography 101, 101L
Geology 101, 101L, 140, 150 or 150H, 201
Physical Science 117, 118
Physics 109, 210, 217, 279
Science 200
B. Social and Behavioral Sciences (minimum 6 units)

1. American Institutions (minimum 3 units) History 118, 120 or $120 \mathrm{H}, 121$ or $121 \mathrm{H}, 122$ Political Science 101 or 101 H
2. Social Science Elective (minimum 3 units) Anthropology 100 or 100H Criminal Justice 101 Economics 120, 121 Geography 100 or $100 \mathrm{H}, 102$ or 102 H
History 101 or $101 \mathrm{H}, 102$ or 102 H
Human Development 107, 110
Political Science 101 or 101H
Psychology 100 or 100 H
Sociology 100 or 100 H
C. Humanities (minimum 3 units)

Anthropology 104 or 104 H
Art 100 or 100H, 101, 102, 105, 110
Communicatioins and Media Studies 103, 111
Dance 100 or $100 \mathrm{H}, 105$
English 104 or 104H
Foreign Language:
Chinese 101, 102
French 101, 102, 201 or $201 \mathrm{H}, 202$ or 202 H
Japanese 101, 102
Spanish 101 or $101 \mathrm{H}, 102$ or $102 \mathrm{H}, 195 \mathrm{~A}$,
195B, 201 or 201H, 202 or 202H
Vietnamese 101, 102
Interdisciplinary Studies 121, 200
Kinesiology, Professional 170
Literature:
Communications and Media Studies 110
English 102 or 102H, 231, 232, 233ABCD, 241, 242, 270, 271, 272
Music 101 or 101H, 102 or $102 \mathrm{H}, 104,110,211$
Philosophy 106 or $106 \mathrm{H}, 108,112,118$
Sign Lannguage 110, 111, 112, 116
Television/Video Communications 101, 103, 104, 105 or 105 H
Theatre Arts 100, 105
D. Cultural Breadth
(Three units required from D1 or D2)
D1. Ethnic Studies/Women's Studies
Anthropology 104 or 104H, 125
Art 103, 104, 106
Asian American Studies 101
Black Studies 101
Chicano Studies 101
Communication Studies 103 or 103H, 206 or 206 H
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
Human Development 221
Kinesiology, Health Education 102
Literature:
English 245, 246, 278
Music 103
Nutrition \& Food 118
Political Science 235
Psychology 170
Sign Language 116
Women's Studies 101, 102
D2. International Perspective
Anthropology 100 or 100 H
Business 106 or 106H
Criminal Justice 209
Dance 105
English 271, 272
Geography 100 or $100 \mathrm{H}, 102$
Interdisciplinary Studies 117H
Kinesiology, Professional 150
Music 102 or 102 H
Philosophy 112
Theatre Arts 105
E. Language and Rationality (minimum 6 units)

1. English Composition (minimum 3 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 101 H with a grade of " $C$ " or better.
2. Communication and Analytical Thinking (minimum 3 units)
Includes mathematics, logic, statistics, computer languages and programming and related disciplines.
Communication Studies 102, 140, 145
Computer Science 100, 105, 111
Counseling 144
English 102 or $102 \mathrm{H}, 103$ or 103 H
Mathematics $078,080 / 081,105,140,145$,
$150,160,167,170,180$ or $180 \mathrm{H}, 185$,
204, 219 or 219H, 280, 287
Philosophy 110 or $110 \mathrm{H}, 111,144$
Reading 102, 150
Social Science 219 or 219 H
F. Lifelong Understanding and Self-Development (minimum 3 units)
NOTE: Take one course from each group. No more than one unit may be counted from F2.

1. Completion of one of the following:

Business 130
Counseling 100, 116, 120, 124, 125, 128
Fashion Design Merchandising 103
Human Development 102, 107
Interdisciplinary Studies 111, 155
Kinesiology, Health Education 101, 102, 104
Kinesiology, Professional 125, 140, 160
Library \& Information Studies 100
Mathematics 030
Nutrition \& 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 107, 107A, 123, 140, 150, 155, 160, 169, 170, 200, 211, 220A, 220B, 220C, 226, 235, 236, 260, 260A, 260B, 262, 265, 265A, 265B, 290, 292
Kinesiology, Adapted Activities 201, 202, 202A, 202B, 205, 208, 208A, 208B, 211, 211A, 211B
Kinesiology, Aerobic Fitness 140, 143, 144, 146, 146A, 146B, 150, 156, 156A, 156B, 157
Kinesiology, Aquatics 201, 204, 206
Kinesiology, Fitness 100, 101A, 101B, 101C, 102, 109A, 109B, 109C, 110A, 110B, 110C, 115A, 115B, 115C, 126A, 126B, 126C, 127A, 127B, 127C, 147A, 147B
Kinesiology, Intercollegiate Athletics 103, 124, 125, 128, 133, 134, 171, 201, 202, 204, 206, 207, 209, 210, 211, 212, 213, 214, 216, 217, 218, 219, 220, 221, 223, 227, 231, 232, 240, 261, 262, 270, 271, 281, 291,
Kinesiology, Professional 155, 165, 175, 200
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.

## Associate Degree for Transfer ${ }^{*}$

## REQUIREMENTS FOR THE ASSOCIATE IN ARTS FOR TRANSFER (AA-T) OR ASSOCIATE IN SCIENCE FOR TRANSFER (AS-T)

California Community Colleges are now offering associate degrees for transfer to the CSU. These may include Associate in Arts (AA-T) or Associate in Science (AS-T) degrees. These degrees are designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an AA-T or AS-T degree are guaranteed admission with junior standing somewhere in the CSU system and given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses.
Students who have been awarded an AA-T or AS-T are able to complete their remaining requirements for the 120 -unit baccalaureate degree within 60 semester or 90 quarter units.
Santa Ana College currently offers several AA-T degrees. To find out which CSU campuses accept each degree, please meet with a SAC counselor. An AA-T or AS-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.
For SAC majors offering an AA-T or AS-T degree students may choose to earn the AA-T or AS-T (option 2) OR an alternate degree(s) for the major (option 1), but not both. Exceptions to this can be made and will be considered for students submitting a Petition for Exception to Academic Regulation.

## Requirements

Student completion requirements for the associate degree lor transfer:

1. 60 semester or 90 quancr CSU transferable units
2. the California State University General Education-Breadth pattern (CSU GE Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern
3. a minimum of 18 semester or 27 quaner units in the major or area of emphasis as determined by the community college district
4. obtainment of a minimum grade point average (GPA) of2.0
5. earn a grade of C or better in all courses required for the major or area of emphasis
Santa Ana College currently offers the following Associate in Arts and Associate in
Science for Transfer degrees:
Communication Studies
Elementary Teacher Education
Political Science
Psychology
Sociology
Theatre Arts

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

## CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION BREADTH (CSU GE)

## PLAN B: 2013-2014

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. Credit/No Credit 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 Counseling 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.
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 2013 and are valid through Summer 2014.

## 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. (C minus is not acceptable.)
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, 144
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 $\mathrm{B} 1, \mathrm{~B} 2$, and B 4 . 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. (C minus is not acceptable.)
B1: Physical Science
Astronomy 109, 110 or 110 H
Chemistry 109, 115, 119, 209, 210, 219 or 219H
Earth Science 110 or 110H, 115, 150 or 150H
Environmental Studies 140
Geography 101
Geology 101, 140, 150 or 150H, 201
Physical Science 115, 117
Physics 109, 210, 211, 217, 279
B2: Life Science
Anthropology 101
Biology 109 or 109H, 109L, 111, 115, 139, 149, 177, 211,
212, 214, 229, 239, 259
Environmental Studies 259
B3: Laboratory Activity
Anthropology 101L
Astronomy 140
Biology 109L, 111, 115, 139, 149, 211, 212, 214, 229, 239 259
Chemistry 109, 115, 119, 209, 210, 219 or 219H
Earth Science 115
Environmental Studies 259
Geography 101L
Geology 101L, 201
Physics 109, 210, 211, 217, 279
Physical Science 115, 118

## B4: Mathematics/Quantitative Reasoning

Courses must be completed with a grade of "C" or better.
Mathematics $105,140,145,150,160,167,170,180$ or
180H, 204, 219 or $219 \mathrm{H}, 280$
Social Science 219 or 219 H
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 $100 \mathrm{H}, 101,102,103,104,105,106,108$
Communications and Media Studies 103
Dance 100 or 100H, 102,105
English 233A, 233B, 233C, 233D
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
C2: Humanities: Literature, Philosophy, Languages Other Than English
Chinese 101, 102
English 102 or $102 \mathrm{H}, 206,220,231,232,233 \mathrm{~A}, 233 \mathrm{~B}, 233 \mathrm{C}$,
233D, 241, 242, 243, 245, 246, 270, 271, 272, 278
French 101, 102, 201 or 201H, 202 or 202 H
History 101 or $101 \mathrm{H}, 102$ or $102 \mathrm{H}, 150,151,153,163$
Interdisciplinary Studies 200
Japanese 101, 102
Kinesiology, Professional 170
Philosophy 106 or 106H, 108, 112, 118
Sign Language 110, 111, 112, 116
Spanish 101 or 101H, 102 or 102H, 195A, 195B, 201 or
$201 \mathrm{H}, 202$ or 202 H
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 subareas.
D1: Anthropology and Archeology
Anthropology 100 or $100 \mathrm{H}, 103,104$ or $104 \mathrm{H}, 105,125$
English 104 or 104H
History 105, 125
D2: Economics
Economics 120, 121
D3: Ethnic Studies
Anthropology 125
Asian American Studies 101
Black Studies 101

Chicano Studies 101
Communication Studies 206 or 206H
English 245, 278
Ethnic Studies 101 or 101H, 102 or 102 H
History 123, 124 or 124H, 125, 146
Political Science 235
Psychology 170
D4: Gender Studies
Communication Studies 206 or 206H
English 245, 278
History 127, 181
Women's Studies 101, 102
D5: Geography
Geography 100 or $100 \mathrm{H}, 102$
D6: History
Anthropology 105, 125
History 101 or $101 \mathrm{H}, 102$ or $102 \mathrm{H}, 105,118,120$ or $\mathbf{1 2 0 H}$,
121 or 121H, 122, 123, 124 or 124H, 125, 127, 133, 146,
150, 151, 153, 163
D7: Interdisciplinary Social or Behavioral Science
Biology 200
Communication Studies 103 or 103H
Communications and Media Studies 111
Computer Science 100
Counseling 150
Environmental Studies 200
Human Development 107, 110
Interdisciplinary Studies 117H, 155
Kinesiology, Professional 150
Science 200
Television/Video Communications 105 or 105H
D8: Political Science, Government, and Legal Institutions
Political Science $\mathbf{1 0 1}$ or 101H, 200 or 200H, 201, 220, 226, 235
D9: Psychology
Human Development 107
Psychology 100 or $100 \mathrm{H}, 140,157,170,200,219,230,240,250$
Sociology 240
D10: Sociology and Criminology
Criminal Justice 101
Sociology 100 or $100 \mathrm{H}, 112,140$ or 140 H
NOTE: The CSU graduation requirement in UNITED STATES
HISTORY, CONSTITUTION AND AMERICAN IDEALS may be
met by completing Political Science 101 or 101 H and one U.S. History course from the following: History 118,120 or $120 \mathrm{H}, 121$ or $121 \mathrm{H}, 122,123,124$ or $124 \mathrm{H}, 127,146$. These courses (in bold in D6 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:
Communication Studies 104
Counseling 100, 116, 120, 124, 125, 128
Human Development 107, 229
Interdisciplinary Studies 155
Kinesiology, Health Education 101, 102, 104
Kinesiology, Professional 125
Nutrition and Food 115 or 115H
Psychology 140, 157, 230
Sociology 112
Study Skills 109
E2:
Kinesiology, Activities 107, 107A, 140, 150, 155, 160, 169,
170, 200, 220A, 220B, 220C, 226, 235, 260, 260A, 260B, 265, 265A, 265B, 290, 292
Kinesiology,AdaptedActivities 201, 202, 202A, 202B,
205, 208, 208A, 208B, 211, 211A, 211B
Kinesiology, Aerobic Fitness 140, 143, 144, 146A, 146B, 150, 156, 156A, 156B,
Kinesiology, Aquatics 201, 204, 206
Kinesiology, Fitness 100, 101A, 101B, 101C, , 102, 110A,
110B, 110C, 115A, 115B, 115C, 126A, 126B, 126C, 127A, 127B, 127C, 147A, 147B,
Kinesiology, Intercollegiate Athletics $125,128,201,202,204$,
206, 209, 210, 211, 212, 213, 214, 216, 217, 218, 219,
220, 221, 223, 240, 270

INTERSEGMENTAL GENERAL EDUCATION
TRANSFER CURRICULUM (IGETC)

## PLAN C: 2013-2014

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

1. It is generally recommended that students complete all the listed requirements for IGETC prior to transferring. Students may obtain partial certification however by completing all but 1-2 courses. Consult a counselor for additional information.
2. Complete all courses used for IGETC certification with a minimum grade of $\mathbf{C}$ ( $\mathbf{C}$ minus is not acceptable). A "credit" is acceptable providing it is equivalent to a grade of C or higher. The catalog must reflect this policy.
3. Request certification from the last California community college you attend 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 Counseling for deadline information.
4. Prior to requesting certification, have all official transcripts on file from every high school and college you have attended.
5. Courses taken at other California community colleges will be applied to the subject areas in which they are listed by the institution where the work was completed.
6. Courses taken at other regionally accredited private/ out of state institutions (which do not maintain an IGETC certification list) will be placed in the subject areas for which Santa Ana College has equivalent courses. Equivalency is determined by Santa Ana College faculty. Petitions are available from Counseling and must be accompanied by the appropriate documentation. In some cases non-equivalent courses may also be considered. Consult a counselor for additional information.
7. Courses completed at foreign institutions (without US regional accreditation) are not acceptable except for certification of competence in a language other than English.
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 2013 and are valid through Summer 2014.

## 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 $101 \mathrm{H}^{* *}$
Group B: Critical Thinking-English Composition
1 course, 3 semester/4-5 quarter units.
English $102^{* *}$ or $102 \mathrm{H}^{* *}$ ( 102 and 102H not accepted in 1 B if
completed prior to Fall 2011)
English $103^{* *}$ or $103 \mathrm{H}^{* *}$
Philosophy $110^{* *}$ or $110 \mathrm{H}^{* *}$
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 \&

## QUANTITATIVE REASONING

1 course, 3 semester/4-5 quarter units.
Math $105,140^{* *}, 145,150^{* *}, 170^{* *}, 180^{* *}$ or $180 \mathrm{H}^{* *}, 185$,
$219^{* *}$ or $219 H^{\star \star}, 280$; Social Science $219^{* *}$ or $219 H^{\star *}$

## AREA 3 - ARTS \& 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 $100 \mathrm{H}^{\star *}, 101,102,103,104,105,106,108$
Communications and Media Studies 103
Dance $100^{* *}$ or $100 \mathrm{H}^{* *}, 102,105$
Interdisciplinary Studies 121
Music $101^{\star *}$ or $101 \mathrm{H}^{\star *}, 102^{\star *}$ or $102 \mathrm{H}^{\star \star}, 103,104,111,211$
Photography 150
Television/Video Communications 103, 104
Theatre Arts 100, 105
Group B: Humanities (minimum 1 course)
Chinese 102
English $102^{\star \star}$ or $102 \mathrm{H}^{\star *}, 206,220,231,232,233$ A or $233 B$ or
233C or 233D, 241, 242, 243, 245, 246, 271, 272, 278
French $102,201^{* *}$ or $201 \mathrm{H}^{* *}, 202^{* *}$ or $202 \mathrm{H}^{\star \star}$
History $101^{\star *}$ or $101 \mathrm{H}^{\star *}, 102^{* *}$ or $102 \mathrm{H}^{\star *}, 150,151,153,163^{*}$ Interdisciplinary Studies 200
Japanese 102
Philosophy $106^{\star *}$ or $106 H^{\star *}, 108,112,118$
Sign Language 111, 112, 116
Spanish $102^{* *}$ or $102 \mathrm{H}^{* *}, 195 \mathrm{~A}, 195 \mathrm{~B}, 201^{* *}$ or $201 \mathrm{H}^{\star *}, 202^{* *}$ or $202 \mathrm{H}^{* *}$
Vietnamese 102

## AREA 4 - SOCIAL \& BEHAVIORAL SCIENCES

3 courses, 9 semester/12-15 quarter units from at least 2 disciplines or an interdisciplinary sequence.
Anthropology $100^{* *}$ or $100 \mathrm{H}^{\star *}, 103,104^{\star *}$ or $104 \mathrm{H}^{\star \star}, 105,125$ Asian American Studies 101
Biology 200
Black Studies 101
Chicano Studies 101
Communication Studies 206** or $206 \mathrm{H}^{* *}$
Communications and Media Studies 111
Criminal Justice 101
Economics 120, 121
English $104^{* *}$ or $104 \mathrm{H}^{* *}$
Environmental Studies 200
Ethnic Studies $101^{* *}$ or $101 \mathrm{H}^{* *}, 102^{* *}$ or $102 \mathrm{H}^{\star *}$
Geography $100^{* *}$ or $100 \mathrm{H}^{* *}, 102^{* *}$
History $105,118,120^{* *}$ or $120 \mathrm{H}^{* *}, 121^{* *}$ or $121 \mathrm{H}^{\star *}, 122^{* *}$,
$123,124^{\star *}$ or $124 H^{\star *}, 125,127,133,146,163^{\star}, 181$
Human Development 107**
Interdisciplinary Studies 117H, 155
Political Science $101^{* *}$ or $101 H^{\star *}, 200^{\star *}$ or $200 H^{* *}, 201,220$, 235
Psychology $100^{* *}$ or $100 \mathrm{H}^{* *}, 140,157^{* *}, 170,200,219,230$,
240, 250
Science 200
Sociology $100^{* *}$ or $100 \mathrm{H}^{* *}, 140^{* *}$ or $140 \mathrm{H}^{* *}, 240$
TVNideo Communications $105{ }^{* *}$ or $105 \mathrm{H}^{* *}$
Women's Studies 101, 102

## AREA 5 - PHYSICAL \& 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 $110 \mathrm{H}^{* *}$
Chemistry $109^{\star \star}, 115,119^{* *}, 209^{\star \star}, 210,219^{\star *}$ or $219 \mathrm{H}^{\star *}$, 229
Earth Science $110^{* *}$ or $110 \mathrm{H}^{\star *}, 115^{* *}$, $150^{* *}$ or $150 \mathrm{H}^{* *}$ Environmental Studies 140
Geography 101**
Geology 101**, 140, 150** or $150 \mathrm{H}^{* *}$, 201
Physical Science $115,117^{\star *}$
Physics $109^{* *}, 210^{* *}, 211^{* *}, 217^{* *}, 227^{* *}, 237^{* *}, 279^{* *}$, 289**

Group B: Biological Science (1 course)
Anthropology 101
Biology 109** or $109 \mathrm{H}^{\star *}, 115,139^{* *}, 177,211,212,214$,
229**, 239, 249, 259
Environmental Studies 259
Group C: Laboratory Activity
Anthropology 101L
Astronomy 140
Biology 109L, 115, 139, 211, 212, 214, 229, 239, 249, 259
Chemistry 109, 115, 119, 209, 210, 219 or 219H, 229
Earth Science 115
Environmental Studies 259
Geograpy 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: Chinese 101, French 101, Japanese 101, Sign Language 110, Spanish $101^{* *}$ or $101 H^{* *}$, 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 "0" Level exam; 5, 6, or 7 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 descretion of each CSU campus.) To meet the CSU requirement, students should take Political Science $101^{* *}$ or $101 \mathrm{H}^{\star *}$ AND one of the following courses: History $118,120^{\star *}$, $120 \mathrm{H}^{\star \star}, 121^{\star \star}, 121 \mathrm{H}^{\star \star}, 122^{\star \star}, 123,124^{\star \star}, 124 \mathrm{H}^{\star \star}, 127,146$.
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.

[^2]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 in 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 and official articulation agreements are available in the Transfer Center and the Counseling Center at Santa Ana College. Agreements are also available at www.assist.org.

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) 112 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 at Santa Ana College to develop a Student Educational Plan which will identify the courses needed to transfer.

## TRANSFER CENTER

The Transfer Center, 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 Transfer Center to meet with students individually and provide information about their programs and requirements. The Center maintains a complete 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 Transfer Center.

## 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.

Courses which are transferable to the UNIVERSITY OF CALIFORNIA are designated on the UC Transferable Course Agreement. Some of the courses which are transferable to the University of California have credit limitations. Check the UC Transferable Course Agreement on page 47 or at www.assist.org to determine these limitations.

## INDEPENDENT AND OUT-OF-STATE

 COLLEGES AND UNIVERSITIES usually accept most courses which 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, skills and understanding which 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 4 -year colleges and universities. Each agreement is specific to the 4 -year institutions but all offer, at least, "priority consideration for admission." While Santa Ana College continues to add to the honors transfer agreement list, we currently have 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
Pitzer College
Pomona College
Whitman College
New transfer agreements are added every year. Ask for details and updates. For details regarding specific agreements, contact the Honors Coordinator at Santa Ana College, Kathleen 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 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 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.
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 $2.0(\mathrm{C})$ 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 three 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 four basic skill courses, as part of their admission criteria.
II. Upper Division Admission Requirements

Applicants with 60 or more transferable semester ( 90 quarter) units must have an overall grade point average of 2.0 (C) or better (2.4 for California non-residents) in all transferable units attempted and be in good standing at the last college or university attended. Such students are eligible for admission to the CSU if they have:

- Completed 60 transferable semester (90 quarter units);
- Completed at least 30 semester ( 45 quarter) units of general education courses, graded C or better in each course, including: All general education requirements in communication in the English language ( 9 semester or 12-15 quarter units) consisting of one course in written communication, one course in oral communication, one course in critical thinking (CSU GE category A), and one course in mathematics/quantitative reasoning (CSU GE category B4). The mathematics course must have intermediate algebra as
a prerequisite. Go to www.ASSIST.org for listings of courses at every CCC that meet the CSU general education requirements;
- Acquired a grade point average of 2.0 or better ( 2.4 for California non-residents) in all transferable college units attempted; and
- Are in good standing at the last college or university attended (i.e. eligible to reenroll at that college or university).
Note: Campuses and/or programs and class levels that are designated as being impacted have additional admission criteria. See www.calstate.edu (search for impaction) for additional information on impacted programs.


## 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 which 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 40 of the catalog for GE Plan B) or the Intersegmental General Education Transfer Curriculum (see page 41 of the catalog for GE Plan C). Students can also meet the general education requirements of a specific CSU campus.

## CERTIFICATION OF GENERAL EDUCATION FOR TRANSFER TO CSU

See certification information on page 44.
ASSOCIATE IN ARTS
FOR TRANSFER
(AA-T) OR ASSOCIATE IN SCIENCE
FOR TRANSFER (AS-T)
See information on page 39.

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.

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

The University admits some transfer students before they reach junior standing if they have met specific requirements. Refer to the open/closed majors status report at www.universityofcalifornia. edu/admissions/openmajors to see which campuses will accept lower-division transfers for a particular term.

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, or was identified by the University as eligible in the local context and completed the Subject and Examination Requirements in the senior year - the student is eligible for transfer if he or she has a C (2.0) average in 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 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 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 course pattern requirements, earning a grade of C or better in each course:

- Two transferable college courses (3 semester or 4-5 quarter units each) in English composition;
- One transferable college course (3 semester or $4-5$ quarter units) in mathematical concepts and quantitative reasoning;
- Four transferable college courses (3 semester or 4-5 quarter units each) chosen from at least two of the following subject areas: the arts and humanities, the social and behavioral sciences, and the physical and biological sciences.
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.


## 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 41 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, Environmental Design, Chemistry, Natural Resources (some majors), and the Haas School of Business at UCB; anyone preparing for a bachelor of science or high unit majors 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 and Roosevelt Colleges at UCSD; students in the College of Engineering may want to choose IGETC courses that also satisfy the college depth requirement at UCSB; any major in
the Jack Baskin School of Engineering or any major in the Physical and Biological Sciences at UCSC. Students who began at a UC campus and who intend to transfer back to the same campus cannot use IGETC. Some UC campuses do not allow students who began at another UC campus to use IGETC. Students in the above categories should follow the GE requirements of the UC campus they are transferring to. Consult a counselor for additional information.

## CERTIFICATION OF GENERAL EDUCATION FOR TRANSFER TO UC OR CSU

Upon a student's request Santa Ana College will verify the completion of lower division general education requirements for transfer to the University of California (IGETC, Plan C), or the California State University (either CSU GE Breadth or IGETC, Plan B or Plan C). 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 fouryear 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 outstanding 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 January for the following academic year. Filing instructions and deadlines are indicated on the web sites www.fafsa.ed.gov and www.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:

- Alliant International University
- American Academy of Dramatic Arts LA
- 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
- Claremont McKenna College
- Concordia University
- Dominican University of California
- Fresno Pacific University
- Golden Gate University
- Harvey Mudd College
- Holy Names University
- Hope International University
- Humphreys College
- Laguna College of Art and Design
- La Sierra University
- Loma Linda University
- Loyola Marymount University
- Marymount College
- The Master's College
- Menlo College
- Mills College
- Mount St. Mary's College
- National University
- Notre Dame de Namur University
- Occidental College
- Otis College of Art and Design
- Pacific Oaks College
- Pacific Union College
- Pepperdine University
- Pitzer College
- Point Loma Nazarene University
- Pomona 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
- Sofia University
- Soka University
- 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
- Vanguard University
- West Coast 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.

## BEGIN A TRANSFER MAJOR AT SANTA ANA COLLEGE

In order to get 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-

## Anthropology

Art/Art History
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 and Media Studies
Communicative Disorders
Comparative Literature
Computer Engineering
Computer Information Systems
Computer Science
Criminal Justice
Dance
Ecology
Economics
Electrical Engineering
Engineering
Engineering Technology
English
Ethnic Studies
Family \& Consumer Sciences/
Home Economics
Film Studies
Fire Protection Administration \& Technology
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.

Geography<br>Geology<br>Graphic Design<br>Health Science<br>History<br>Hotel/Restaurant Management<br>Human Development<br>Human Services<br>Humanities<br>Industrial Engineering<br>International Business<br>International Studies<br>Kinesiology<br>Liberal Studies<br>Linguistics<br>Mathematics<br>Mechanical Engineering<br>Meteorology<br>Microbiology<br>Modern Languages<br>Music/Musicology<br>Nursing<br>Nutrition \& Dietetics/Food Science<br>Occupational Therapy*<br>Oceanography*<br>Philosophy

Below is a partial listing of majors you might choose to begin at SAC. Visit the Transfer or Counseling Centers or make an appointment with a counselor to discuss which courses you should take at SAC to begin preparation in the transfer major of your choice. In addition, www.assist.org lists required courses for many UC and CSU majors.

Physical Education/Exercise Science<br>Physical Therapy*<br>Physics<br>Political Science<br>Pre-Chiropractic<br>Pre-Dentistry*<br>Pre-Law*<br>Pre-Medicine*<br>Pre-Optometry*<br>Pre-Pharmacy*<br>Pre-Veterinary Medicine*<br>Psychology<br>Public Administration<br>Radio/Television/Film<br>Religious Studies<br>Social Ecology<br>Social Work<br>Sociology<br>Teaching**<br>Theater Arts/Drama<br>Urban Studies<br>Women's Studies<br>Zoology

*These are primarily graduate programs for which undergraduate majors can vary. See a counselor to determine what undergraduate major might be right for you.
** Undergraduate majors for those planning to teach K-12 can vary widely depending upon the subject and grade level to be taught. See a counselor to determine what undergraduate major might be right for you.

The above list does not represent all transfer majors at all colleges.
To find out exactly what majors are available at any particular college/university visit the Transfer Center at Santa Ana College.
Transfer specialists are there to assist you, and resources are available for student use in these locations.

Transfer students may also want to complete an associate degree. While not always a requirement for transfer, the associate degree 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 2O13-2014

This agreement lists courses transferable for unit credit at all UC campuses. This list is valid for courses completed during Fall 2013, Spring 2014 and Summer 2014. Additional courses for 2013-2014 may be approved after the publication date for this catalog.

## ACCOUNTING

101, 102

## ANTHROPOLOGY

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

## ART

$100,100 \mathrm{H}, 101,102,103,104,105,106,108$, 110, 111, 130, 131, 132A, 132B, 140A, 140B, $141,143,150,151,152,153,154 \dagger, 155,156$, 157, 158, 159A, 159B, 195^, 230, 231, 232, 233, 240, 241, 242, 243, 251, 252

## ASIAN AMERICAN STUDIES

101

## ASTRONOMY

109, 110, 110H, 140

## BIOLOGY

*109, *109H, 109L, 115² 129, **139†, 177, 200, 211, 212, 214, **229, 239, 249, 259,
***290ø

* No credit for 109 or 109 H if taken after 211
** 139 and 229 combined: maximum credit, one course.
*** 211 and 290 combined maximum credit, one course.


## BLACK STUDIES

101

## BUSINESS

100, *101, *105, **150

* Maximum credit, one course
**No credit for Business 150 if taken after Computer Science 105


## BUSINESS APPLICATIOINS

$150 \dagger$

## CHEMISTRY

*109, $115^{\star}, ~ * 119, * 209,210^{\wedge}, 219,219 \mathrm{H}$, 229, 249, 259

* 109, 119, and 209 combined, maximum credit, one course

No credit for 109, 119, or 209 if taken after 219

## CHICANO STUDIES

101

## CHINESE

101, 102

## COMMUNICATION STUDIES

101, 101H, 102, 103, 103H, 140, 145, 152, 158\#, 206, 206H

## COMMUNICATIONS AND MEDIA

 STUDIES103\&, 110\&, 111^

## COMPUTER SCIENCE

100, 105, 112, 120†,121, 129, 131, 141, 205, 213, 243

## COUNSELING

107\#, 116^, 128, *144

* 144, Philosophy 111 and 144 combined: maximum credit, one course


## CRIMINAL JUSTICE

101, 103, 109

## DANCE

100, 100H, 102, 105, 106A, 106B, 107, 108A, 108B, $\sim 109 \mathrm{~A}, 110,111,112,113 \mathrm{~A}, 113 \mathrm{~B}, 117$, 118, 119A, 119B, ~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, 204B, ~270, 296, 297,~298
~any or all of these PE Activity courses combined, maximum credit 4 units

## EARTH SCIENCE

*110, *110H, **115 $\ddagger, 150,150 \mathrm{H}$

* 110 combined with 110 H, 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, 228, 235, 240†, 250, 250L, 281

## ENGLISH

101, 101H, 102, 102H, 103, 103H, 104, 104H, 206, 211, 212, 214, 215, 220, 231, 232, 233A, 233B, 233C, 233D, 241, 242, 243, 245, 246, 271, 272, 278

## ENGLISH FOR MULTILINGUAL STUDENTS <br> *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 <br> 104

FRENCH
*101, 102, 201, 201H, 202, 202H, 211^, 214

* Corresponds to two years of high school study


## GEOGRAPHY

$100,100 \mathrm{H}, * 101,101 \mathrm{~L}, 102$

* 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,
$121,121 \mathrm{H}, ~ * 122,123,124,124 \mathrm{H}, 125,127$,
128H, 133, 146, 150, 151, 153, 163^, 181

* No credit for 122 if taken after $120 / 120 \mathrm{H}$ or 121/121H


## HUMAN DEVELOPMENT

*107, 110

* 107 and PSYC 157 combined: maximum credit, one course


## INTERDISCIPLINARY STUDIES

117H, 121\&, 155, 200

## JAPANESE

*101, 102

* Corresponds to two years of high school study


## KINESIOLOGY

KNAC ~107,~107A,~123,~140,~150,~155,
$\sim 160, \sim 169, \sim 170, \sim 200, \sim 211, \sim 220 \mathrm{~A}, \sim 220 \mathrm{~B}$,
$\sim 220 \mathrm{C}, \sim 226, \sim 235, \sim 236, \sim 260, \sim 260 \mathrm{~A}, \sim 260 \mathrm{~B}$,
~262,~265, ~265A,~265B, ~290,~292;
KNAD ~201, ~202, ~202A, ~202B, ~205, ~208,
~208A, ~208B, $\sim 211, \sim 211 \mathrm{~A}, \sim 211 \mathrm{~B}$;
KNAF $\sim 140, \sim 143, \sim 144, \sim 146, \sim 146 \mathrm{~A}, \sim 146 \mathrm{~B}$,
$\sim 150, \sim 156, \sim 156$ A, $\sim 156 B, \sim 157^{\wedge}$
KNAQ ~201,204,~206
KNFI $\sim 100, \sim 101 \mathrm{~A}, \sim 101 \mathrm{~B}, \sim 101 \mathrm{C}, \sim 102$,
$\sim 109 \mathrm{~A}, \sim 109 \mathrm{~B}, \sim 109 \mathrm{C}, \sim 110 \mathrm{~A}, \sim 110 \mathrm{~B}, \sim 110 \mathrm{C}$,
$\sim 115 \mathrm{~A}, \sim 115 \mathrm{~B}, \sim 115 \mathrm{C}, \sim 126 \mathrm{~A}, \sim 126 \mathrm{~B}, \sim 126 \mathrm{C}$,
$\sim 127 \mathrm{~A}, \sim 127 \mathrm{~B}, \sim 127 \mathrm{C}, \sim 147 \mathrm{~A}, \sim 147 \mathrm{~B}$;
KNHE **101, **102, **104, ***105, ***107;

[^3]KNIA ~103,~124,~125,~128,~133,~134,~171, ~201,~202,~204,~206,~207,~209,~210,~211,
$\sim 212, \sim 213, \sim 214, \sim 216, \sim 217, \sim 218, \sim 219, \sim 220$,
~221, 223, 227, 231, 232, 240, 261, 262, 270,
271, 281, 291
KNPR $101 \varnothing,+155,+165,+175,+200$;
KNSM 101, 150
~ 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

$105, * 140,145, * * 150, * 170, * * 180, * * 180 \mathrm{H}$, $185,204,219,219 \mathrm{H}, 280,287 \dagger$

* 140 and 170 combined, maximum credit, one course
** 150,180 , and 180 H combined, maximum credit, one course


## MUSIC

101, 101H, 102, 102H, 103, 104^, 110, 111, 112, *113A, *113B, 114A, 114B, 115A, 115B, 115C, 115D, 121, 122, 123, 124, 132, 134, 135, 136, 137, 140, 141, 145^, 161, 162, 163, 164A, 164B, 165, 168, 169, 170, 171, 173\#,
$175,176,177,178,179,180 \mathrm{~A}, 181,185,186$, 187, 188, 189, 211, 213, 214, 215A, 216, 217, 241, 271 $\downarrow$

* No credit for 113AB if taken after 114AB


## NUTRITION AND FOOD

115, 115H

## PHILOSOPHY

106, 106H, 108, 110, 110H, *111, 112, 118, *144

* 111 and 144/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

$100,100 \mathrm{H}, 140, * 157,170,200,219,230$, 240, 250

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


## SCIENCE

## 200

## SIGN LANGUAGE

*110\#, 111\#, 112, 116\#

* Corresponds to two years of high school study


## SOCIAL SCIENCE

219, 219H

## SOCIOLOGY

100, 100H, 112, 140, 140H, 240

## SPANISH

*101, *101H, 102, 102H, 195A, 195B, 201, $201 \mathrm{H}, 202,202 \mathrm{H}, 212,213$

* Corresponds to two years of high school study


## SPEECH LANGUAGE PATHOLOGY

 ASSISTANT119\#, 160

## TELEVISION/VIDEO COMMUNICATION

103, 104, 105, 105H, 142, 150

## THEATER ARTS

$100,105^{*}, 110,111,113,118,131,132,133$, $135,150,151^{\star}, 152 \not \subset, 153^{\star}, 154^{\star}, 155^{*}, 156 \dagger$, 250

## VARIABLE TOPICS

These courses are also called "Independent Studies", "Special Studies", "Special Topics", "Field Work", etc. and are typically numbered 198 or 199 at SAC. Credit for variable topics courses is given only after a review of the course outline by the enrolling UC campus. This usually occurs after transfer and may include recommendations from faculty. Students are advised to save all materials from their SAC Variable Topics course(s), which are typically numbered 198. Information
about internships may also be presented for review, but credit for internships rarely transfer to UC. No credit for Special Topics courses in Journalism, Photography, Health, Business Administration, Architecture, Criminal Justice (Criminology), or Library Departments due to the credit restrictions in these areas.

## VIETNAMESE

*101, 102

* Corresponds to two years of high school study


## WOMEN'S STUDIES

101, 102

+ New addition to the list effective Fall 2001 (UC credit not granted for course taken prior to Fall 2001)
\# New addition to the list effective Fall 2002 (UC credit not granted for course taken prior to Fall 2002)
$\wedge$ New addition to the list effective Fall 2003 (UC credit not granted for course taken prior to Fall 2003)
$\ddagger$ New addition to the list effective Fall 2006 (UC credit not granted for course taken prior to Fall 2006)
* New addition to the list effective Fall 2007 (UC credit not granted for course taken prior to Fall 2007)
^ New addition to the list effective Fall 2008 (UC credit not granted for course taken prior to Fall 2008)
$\dagger$ New addition to the list effective Fall 2009 (UC credit not granted for course taken prior to Fall 2009)
\& New addition to the list effective Fall 2010 (UC credit not granted for course taken prior to Fall 2010)
$\star$ New addition to the list effective Fall 2011 (UC credit not granted for course taken prior to Fall 2011)
$\varnothing$ New addition to the list effective Fall 2012 (UC credit not granted for course taken prior to Fall 2012)

This list is informational only and is based on the official Santa Ana College 2010-2011 UC Transfer Course Agreement which can be found at www.assist.org. UC transferable course lists for additional years are also located on ASSIST. For more information consult a Santa Ana College counselor.

[^4]
## 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 he transfer requirements for both the major and general etducation 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.

## ACCOUNTING

## Accounting (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.
Core Courses for the associate in arts degree:

## Course <br> Units

Accounting 101, Financial Accounting 4
Accounting 102, Managerial Accounting 4
$\overline{\text { Accounting 104, Federal \& California Taxes }} 4$
Business 222, Business Writing
3
Select ONE course from the following:
Accounting 160, Accounting with Sage MAS Software (3) 3-4
Accounting 170, Microsoft Dynamics for Financial Accounting Core Modules (4)
Select a minimum of THREE units from the following electives: 3
Accounting 035, QuickBooks (2)
Accounting 108, Tax Practices and Procedures (3)
Accounting 113, Intermediate Income Taxes - Corporations (2)
Accounting 114, Intermediate Income Taxes - Partnerships \& LLCs (2)
Accounting 124, Computerized Income Tax Preparation (1)
Accounting 171, Microsoft Dynamics for Financial Accounting Operations and Analysis (4)
Accounting 173, Microsoft Dynamics for Project Management and Control (4)
Accounting 174, Microsoft Dynamics for Business Planning and Management (4)
Accounting 204, Managerial Cost Accounting (3)
Accounting 205, Intermediate Accounting (3)
Computer Science 163, Microsoft Excel (3)
Business Applications 188, Microsoft Excel (1.5)
Business Applications 189, Microsoft Excel (1.5)
Total 21-93
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 (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 higherlevel responsibilities in these areas and the areas of general ledger, financial statement preparation and financial statement analysis.

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- |  |
| Management 122, Business Communications |  |
| Business 150, Introduction to Information Systems and |  |
| Applications |  |
| Business Applications 179, Introduction to Microsoft Office | 4 |
| Select 4-5 units from the following: | $4-5$ |
| Accounting 032, Payroll Accounting (1) |  |
| Accounting 035, QuickBooks (2) |  |
| Accounting 104, Federal \& California Taxes (4) |  |
| Accounting 105, Intermediate Federal and California Taxes (4) |  |
| Accounting 106, Cooperative Work Experience Education - |  |
| Occupational (1-4) |  |
| Accounting 124, Computerized Income Tax Preparation (1) |  |
| Accounting 160, Computerized Accounting with MAS 90® |  |
| Part 1 Core Modules (3) |  |
| Accounting 170, Microsoft Dynamics for Financial Accounting - |  |
| Core Modules (3) |  |
| Accounting 204, Managerial Cost Accounting (3) |  |
| Accounting 205, Intermediate Accounting (3) |  |
| Business 100, Fundamentals of Business (3) |  |
| Business 120, Principles of Management (3) |  |
| Business 125, Introduction to International Business (3) |  |
| Business 127, Introduction to E-Commerce (3) |  |
| Business 130, Personal Finance (3) |  |
| Business 160, Introduction to Stock and Bond Investments (3) |  |
| Banking 010, Teller Training for Financial Institutions (2) |  |

Total 19-20

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 Option (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.

| Take all of the following courses: | Units |  |
| :--- | ---: | :---: |
| Accounting 035, QuickBooks | 2 |  |
| Accounting 101, Financial Accounting | 4 |  |
| Management 122, Business Communications (3) | 3 |  |
| Business 222, Business Writing (3) |  |  |
| Business 150, Introduction to Information Systems and | 3 |  |
| Applications |  |  |
| Select a minimum of 3 units from the following electives: | $3-4$ |  |
| Accounting 032, Payroll Accounting (1) |  |  |
| Accounting 124, Computerized Income Tax Preparation (1) |  |  |
| Business Applications 188, Microsoft Excel (1.5) |  |  |
| Business Applications 189, Microsoft Excel (1.5) |  |  |
| Computer Science 163, Microsoft Excel (3) |  |  |
| Business Applications 179, Introduction to Microsoft Office (4) |  |  |

## Accounting with Sage MAS Software (sac.acctm.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.

## Required Core:

Units
Accounting 101, Financial Accounting
4
Accounting 160, Accounting with Sage MAS Software (3)
Accounting 161, Accounting with Sage MAS Software Advanced (3)
Management 122, Business Communications (3) $-\mathrm{OR}-$
Business 222, Business Writing (3)
Business 150, Introduction to Information Systems and 3
Applications
Select a minimum of $\mathbf{3}$ units from the following electives:

## Accounting 032, Payroll Accounting (1)

Accounting 124, Computerized Income Tax Preparation (1)
Business Applications 188, Microsoft Excel (1.5)
Business Applications 189, Microsoft Excel (1.5)
Computer Science 163, Microsoft Excel (3)
Business Applications 179, Introduction to Microsoft Office (4)
Total $\quad 16-17$

## Computerized Bookkeeping-QuickBooks Option (sac.acctbq.ca)

Take all of the following courses: Units
Accounting 035, QuickBooks
2
Accounting 032, Payroll Accounting 1
Business Applications 179, Introduction to Microsoft Office
Select ONE of the following courses:
Accounting 010, Accounting Procedures (3) 3-4
Accounting 101, Financial Accounting (4)
Select ONE of the following courses:
Business Applications 017, Business Writing Skills (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)
Business Applications 188, Microsoft Excel (1.5)
Business Applications 189, Microsoft Excel (1.5)
Total
14-15

## Computerized Bookkeeping-Sage MAS Software (sac.acctbm.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.
Take all of the following courses: ..... Units
Accounting 032, Payroll Accounting ..... 1
Business Applications 179, Introduction to Microsoft Office ..... 4
Select ONE of the following courses:
Accounting 160, Accounting with Sage MAS Software (3)Accounting 161, Accounting with Sage MAS Software -3
Advanced (3)
Select ONE of the following courses:
Accounting 010, Accounting Procedures (3) ..... 3-4
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 courses:
Accounting 124, Computerized Income Tax Preparation (1)
Business Applications 188, Microsoft Excel (1.5)
Business Applications 189, Microsoft Excel (1.5)
Total $15-16$

## Accounting and Financial Planning (sac.acctf.cert)

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

## Enrolled Agent (sac.acctea.cert)

Requirements for the certificate:

| Core Courses for the certificate: | Units |  |  |
| :--- | ---: | :---: | :---: |
| Accounting 101, Financial Accounting | 4 |  |  |
| Accounting 104, Federal \& California Taxes | 4 |  |  |
| Accounting 108, Tax Practices \& Procedures | 3 |  |  |
| Accounting 124, Computerized Income Tax Preparation | 1 |  |  |
| Select this course: |  |  |  |
| Accounting 105, Intermediate Federal \& California Taxes (4) |  |  |  |
| or select these TWO courses: | 4 |  |  |
| ACCT 113, Intermediate Income Taxes-Corporations (2) |  |  |  |
| ACCT 114, Intermediate Income Taxes-Partnerships \& LLCs (2) |  |  |  |
| Total |  |  | 16 |

## Microsoft Dynamics for Financial Accounting (sac.acctdf.cert)

Requirements for the certificate:
Take all of the following courses:
Units
Accounting 101, Financial Accounting
Accounting 170, Microsoft Dynamics for Financial Accounting - 4 Core Modules
Accounting 171, Microsoft Dynamics for Financial Accounting - 4 Operations and Analysis
Business 150, Introduction to Information Systems and
$\qquad$
Total

## Microsoft Dynamics for Project Management and Business Planning (sac.acctdm.cert)

Requirements for the certificate:

| Course | Units |
| :--- | ---: |
| Accounting 102, Managerial Accounting | 4 |
| Accounting 173, Microsoft Dynamics for Managerial Accounting | 4 |
| Accounting 174, Microsoft Dynamics for Business Planning <br> and Management | 4 |
| Business 150, Introduction to Information Systems and <br> Applications | 3 |
|  | Total |

## AMERICAN SIGN LANGUAGE

## American Sign Language Certificate (sac.sign.ca)

Certificate of competency in American Sign Language 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 and an introductory awareness of Sign Language Interpreting and other professions working within the Deaf community.

Requirements for the certificate:

| Course | Units |  |
| :--- | ---: | ---: |
| Sign Language 110, American Sign Language I | 3 |  |
| Sign Language 111, American Sign Language II | 3 |  |
| Sign Language 112, American Sign Language III | 3 |  |
| Sign Language 113, Introduction to Interpreting for the Deaf | 3 |  |
| Sign Language 114, Classifier, Fingerspelling and Numbers | 3 |  |
| Sign Language 116, Perspective on Deafness | 3 |  |
| Special Services 205, Exceptionality \& Special Needs in | 3 |  |
| Human Development (Same as Human Development 205) |  |  |
| Human Development 107, Child Growth \& Development <br> -OR | 3 |  |
| Psychology 157, Introduction to Child Psychology | Total | 24 |

Recommended electives: Speech Language Pathology Assistant 160.

## Administration of Justice <br> (See Criminal Justice)

## ANTHROPOLOGY

## Anthropology Degree (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.

Major requirements for the associate in arts degree:

| Course | Units |
| :---: | :---: |
| Anthropology 100, Introduction to Cultural Anthropology |  |
| Anthropology 100 H , Honors Introduction to Cultural Anthropology |  |
| Anthropology 101, Introduction to Physical Anthropology |  |
| Anthropology 103, Introduction to Archeology |  |
| *Anthropology 104, Language \& Culture |  |
| *Anthropology 104H, Honors Language \& 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
Ethnic Studies 101H, Honors Introduction to Ethnic Studies
Geography 100, World Regional Geography
Geography 100H, Honors World Regional Geography
Geography 102, Cultural Geography
Geography 102H, Honors Cultural Geography
History 101, World Civilizations to the 16th Century
History 101 H , Honors World Civilizations to the 16 th Century
Interdisciplinary Studies 117H, Honors Introduction to 3
Global Studies

| Psychology 100, Introduction to Psychology |
| :--- | :--- |
| -OR- |

Psychology 100H, Honors Introduction to Psychology
Sociology 100, Introduction to Sociology 3

Sociology 100 H , Honors Introduction to Sociology
Women's Studies 101, Introduction to Women's Studies

## 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 |  |
| -OR - |  |
| Biology 109H, Honors Fundamentals of Biology | 3 |
| Biology 109L, Fundamentals of Biology Laboratory | 1 |
| Biology 127, Ecology | 1 |
| Biology 149, Human Anatomy \& Physiology | 4 |
| Biology 177, Human Genetics | 3 |
| Biology 211, Cellular and Molecular Biology | 5 |
| Biology 212, Animal Diversity \& 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/Social Sciences 219/219H.
*Note: Anthropology 104 or 104H are alternately listed as English 104 or 104 H .
**Note: Anthropology 105 and Anthropology 125 are alternately listed as History 105 and History 125.

## ARCHITECTURE

(See Engineering-Drafting and Design Program Option II)

## ART

## Art Degree (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.
Major requirements for the associate in arts degree:
Course Units
Art 100, Introduction to Art Concepts $\begin{aligned} & \text { OR - }\end{aligned}$
Art 100 H , Honors Introduction to Art Concepts
Art 101, Survey of Western Art History I 3
Art 102, Survey of Western Art History II $\quad 3$
Art 105, History of Modern Art $\quad 3$
Art 110, Two-Dimensional Design $\quad 3$
Art 111, Three-Dimensional Design $\quad 3$
Art 124, Gallery Production 2
Art 130, Introduction to Drawing $\quad 3$
$\overline{\text { Art 131, Beginning Life Drawing }} 3$
Art 141, Beginning Painting $\quad 3$
Electives $\quad 3$

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, $158,159 \mathrm{~A}, 159 \mathrm{~B}, 164,165,166,167,182,183,188 \mathrm{~A}, 188 \mathrm{~B}, 195$, 196A, 198, 230, 231, 232, 233, 234 or 234H, 240, 241, 242, 243, 250, 251, 252, 253, 282, 283, 298.

## 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 (sac.artjw.ca)

| Course | Units |
| :--- | ---: |
| Art 130, Introduction to Drawing | 3 |
| Art 182, Introduction to Jewelry | 3 |
| Art 282, Jewelry | 3 |
| Art 283, Advanced Jewelry (3-3) | 6 |
| Art 284, Introduction to Stone Setting-Jewelry |  |
| Art 285, Introduction to Enameling-Jewelry |  |
|  | Total |

## 11 <br> Crafts Certificate D-Ceramics Emphasis Certificate (sac.artce.cert)

| 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 | 3 |
| Non-Traditional Media | 3 |
| Art 253, Electric Kiln Ceramics | Total |
|  | 15 |

## Art-Graphic Design Degree (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

| Course | Units |
| :--- | ---: |
| Art 100, Introduction to Art Concepts | 3 |
| 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 |

Plus a minimum of 3 units from the following electives: Art 009 010, 131, 140A, 195, 198, 221, 230, 298; Communications and Media Studies 123; Television/Video Communications 105 or 105 H .
Degree Program B-Transfer to state university
Course
UnitsArt 100, Introduction to Art Concepts
-OR-
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 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
ElectivesTotal39

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

## Art 3-D Modeling and Animation Certificate

The certificate program in 3-D animation, addresses the fundamental requirements that 3-D artists are expected to know for entry-level positions in film, broadcast television, in publishing, and video game companies, as well as product, industrial and architectural design. The course work gives training in using 3-D animation and modeling techniques for animated features, live-action special effects, and television commercials. Employment opportunities exist with small and large companies serving a broad spectrum of clientele in the delivery of still, animated and interactive presentations for print, video, and the internet. The certificate program is designed to develop the core technical skills required for these vast arenas of applications, as well as to increase the student's visual communication vocabulary, and to raise awareness of the distinctive and evolving opportunities available in 3-D.

Requirements for the certificate:

## 3-D Modeling and Animation Certificate A-Art Emphasis (sac.art3a.ca)

| Course | Units |  |
| :--- | ---: | ---: |
| Art 110, Two-Dimensional Design | 3 |  |
| Art 130, Introduction to Drawing | 3 |  |
| Art 162, Digital Design with Photoshop-I | 3 |  |
| Art 166, Creating Realism with Textures \& Lights | 3 |  |
| Art 167, 3-D Commercial Applications | 3 |  |
| Art 185, Fundamentals of Cartooning and Storyboarding | 3 |  |
| Art 195, Introduction to Digital Media Arts | 3 |  |
| Art 196A, 3-D Modeling | 5 |  |
| Art 197A, 3-D Animation | 5 |  |
|  | Total | 31 |

## 3-D Animation Certificate B-Television/Video Communications Emphasis (sac.art3b.ca)

| Course | Units |
| :--- | ---: |
| Television/Video Communications 180, Electronic Graphics <br> for Television | 1.5 |
| Television/Video Communications 181, 3D Modeling | 5 |
| Television/Video Communications 185, 3D Animation | 5 |
| Television/Video Communications 187, Electronic Graphics for 2 <br> Television, Advanced Techniques  |  |
| Art 110, Two-Dimensional Design | 3 |
| Art 166, Creating Realism with Textures \& Lights | 3 |
| Art 167, 3-D Commercial Applications | 3 |
| Art 195, Introduction to Digital Media Arts | 3 |
|  | Total |

## 3-D Modeling and Animation Certificate C-Video Game \& Interactive Media Art Emphasis (sac.art3c.ca)

| Course | Units |
| :--- | ---: |
| Art 164, Web Design with Flash | 3 |
| Art 166, Creating Realism with Textures \& Lights | 3 |
| Art 167, 3-D Commercial Applications | 3 |
| Art 180, Video Game \& Interactive Media Art | 3 |
| Art 185, Fundamentals of Cartooning and Storyboarding | 3 |
| Art 195, Introduction to Digital Media Arts | 3 |
| Art 196A, 3-D Modeling | 5 |
| Art 197A, 3-D Animation |  |
|  | Total |

## 3-D Modeling and Animation Certificate D-Previsualization Emphasis (sac.art3d.ca)

| Course | Units |  |
| :--- | ---: | ---: |
| Art 100, Introduction to Art Concepts |  |  |
| Art 130, Introduction to Drawing | 3 |  |
| Art 162, Digital Design with Photoshop-I | 3 |  |
| Art 166, Creating Realism with Textures \& Lights | 3 |  |
| Art 167, 3-D Commercial Applications | 3 |  |
| Art 195, Introduction to Digital Media Arts |  |  |
| Art 196A, 3-D Modeling | 3 |  |
| Art 197A, 3-D Animation | 5 |  |
|  | Total | 28 |

## Art-Digital Media Arts Degree (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.

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

| Courses | Units |
| :---: | :---: |
| Art 100, Introduction to Art Concepts |  |
| Art 100H, Honors Introduction to Art Concepts |  |
| 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 \& 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 |
| Electives | 3 |
| Total | 36 |

Electives must be chosen from the following courses: Art 111, 121B, 131, 141, 196A, 197A, 198, 221, 230, 298; Computer Science 100; Photography 180, 191.

## 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.

Requirements for the certificate:

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

## Digital Media Arts Certificate AGraphic Design Emphasis (sac.artdg.ca)

| 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 \& Business Strategies | 3 |
| Art 191A, Digital Publishing with InDesign | 3 |
| Art 192A, Digital Illustration with Illustrator |  |
|  | 3 |

Digital Media Arts Certificate B- Web Design Emphasis (sac.artdw.ca)
Course Units
Core courses (See above) ..... 19 ..... 19
Art 121A, Fundamentals of Typography ..... 3
Art 122, Graphic Design I ..... 3
Art 129, Graphic Design Concepts for the Web ..... 3Art 164, Web Design with Flash
3
Art 168, Digital Media: Portfolio \& Business Strategies
Art 192A, Digital Illustration with Illustrator ..... 3
Total ..... 30

## AUTOMOTIVE TECHNOLOGY

## Automotive Technology Degree (sac.auto.as)

The associate degree curriculum in automotive technology is designed to prepare the student for employment in automotive service and repair. Technical instruction includes lecture and lab experiences in a variety of subjects which the student may select according to his/ her interests. Employment opportunities are available in civil service, service stations, independent garages and dealerships, both domestic and foreign.


## Advanced Engine Performance Option Certificate (sac.autae.cert)

The certificate curriculum in advance engine performance is designed to prepare students for entry into the specialized field of diagnosing, testing and repairing computer controlled ignition, fuel and emission systems. It is recommended that students complete the Engine Performance \& Electrical Option Certificate or have an equivalent trade experience.

Major requirements for the certificate:


## Engine Performance and Electrical Option (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 foreign automotive tune-up, electrical and air conditioning service and repair. Advances in electronics have increased the demand for technical skills and knowledge in this specialized area.

Major requirements for the certificate:

| Course | Units |  |
| :--- | ---: | ---: |
| Automotive Technology 002, Essentials (3 units) | $3-4$ |  |
| Automotive Technology 006, Automotive Maintenance (4 units) |  |  |
| Automotive Technology 022, Electronic Fundamentals | 5 |  |
| Automotive Technology 024, Electrical Systems | 5 |  |
| Automotive Technology 032, Tune-Up | 5 |  |
| Automotive Technology 062, Air Conditioning \& Heating | 3 |  |
|  | Total | $21-22$ |

## Engine Service Option (sac.autes.cert)

The certificate curriculum in chassis service is designed to prepare students as engine service helpers and apprentices. Course content includes how to recondition valves, seals and cylinder walls, assembly of short blocks, and repair of cracks in heads and blocks. The program will also enable those already employed in the field to upgrade their skills in engine machining and overhaul.
Requirements for the certificate:

| Course | Units |  |
| :--- | ---: | ---: |
| Automotive Technology 002, Essentials (3 units) | $3-4$ |  |
| Automotive Technology 006, Aur-orotive Maintenance (4 units) |  |  |
| Automotive Technology 072, General Automotive Engine Service | 4.5 |  |
| Automotive Technology 076, Engine Repair | 4.5 |  |
| Automotive Technology 022, Electronic Fundamentals | 5 |  |
|  | Total | $17-18$ |

## Automotive Business Technology (sac.autbu.ca)

The certificate curriculum in Automotive Business is designed to prepare the student for employment as a shop manager or automotive shop owner. The student completes automotive courses in their area of interest as well as essential business courses. Through the completion of this program a prospective owner, manager, or technican would be better aware of the business and the technical aspects of the automotive industry.

| Core Courses | Units |
| :--- | ---: |
| Automotive Technology 002, Essentials (3 units) | $3-4$ |
| Automotive Technology 006, Automotive Maintenance (4 units) | 9 |
| Select 9 Units from the following: |  |
| Automotive Technology 032, Tune-Up(5) |  |
| Automotive Technology 033, A-8 Alternative Course- |  |
| Engine Performance (2) |  |
| Automotive Technology 043, Automatic Transmission Service (4) |  |
| Automotive Technology 044, Power Train Service (4) |  |
| Automotive Technology 053, Brakes (4.5) |  |
| Automotive Technology 054, Front Ends (4.5) |  |
| Automotive Technology 062, Air Conditioning \& Heating (3) |  |
| Automotive Technology 072, General Automotive Engine |  |
| Service (4.5) |  |
| Automotive Technology 076, Engine Repair(4.5) |  |
| Automotive Technology 080, Computer Controls (3) |  |
| Automotive Technology 081, Fuel Injection Systems (3) |  |
| Automotive Technology 082, Automotive Computer Sensors (3) |  |
| Automotive Technology 083, Automotive Lab Scopes (3) |  |
| Automotive Technology 084, OBD II (3) |  |
| Automotive Technology 085, Basic Clean Air Car Course (5) |  |
| Automotive Technology 022, Electronics Fundamentals (5) |  |
| Automotive Technology 024, Electrical Systems (5) |  |
| Accounting 010 Accounting Procedures (3) |  |
| Business 170 Principles of Small Business Management (3) |  |
| Marketing 113 Principles of Marketing (3) |  |
| Business 120 Principles of Management (3) |  |

## BIOLOGY

## Biological Science Degree (sac.biol.aa)

The associate degree in biological science prepares students for preprofessional careers and a curriculum in a four-year institution leading to a baccalaureate degree in such areas as microbiology, botany, zoology,molecular biology, and teaching. The biologist is also prepared to enter graduate or professional programs of specialized study such as medicine, dentistry, medical technology, osteopathy, veterinary medicine, agriculture, forestry, optometry,cell biology, molecular biology, and dental hygiene. See counseling for transfer requirements.

Major requirements for the associate in arts or science degree:

| Course | Units |
| :---: | :---: |
| Biology 211, Cellular \& Molecular Biology | 5 |
| Biology 212, Animal Diversity \& Ecology | 5 |
| Biology 214, Plant Diversity \& Evolution | 5 |
| Biology 290, Biochemistry and Molecular Biology |  |
| Chemistry 219, General Chemistry | 5 |
| Chemistry 219H, Honors General Chemistry |  |
| Chemistry 229, General Chemistry \& Qualitative Analysis | 5 |
| Total | 25 |

## BLACK STUDIES

## Black Studies Degree (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.
Requirements for the associate in arts degree:
Course Units
Art 103, African Art History 3
Black Studies 101, Introduction to Black Studies $\quad 3$
Ethnic Studies 101, Introduction to Ethnic Studies 3
Ethnic Studies 101H, Honors Introduction to Ethnic Studies
History 123, History of Black People in the United States $\quad 3$
History 146, Black People in Twentieth Century America $\quad 3$
Music 103, Jazz in America
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 $100 \mathrm{H}, 104$ or $104 \mathrm{H}, 105,125$; Chicano Studies 101; Dance 105, 112; English 104 or 104H, 245; History 101 or 101H, 102 or 102H, 181; Human Development 221; Music 102; Sociology 100 or 100 H .

## BUSINESS

## Option 1

## Business Administration Degree (sac.bus.aa)

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 specialities, management, marketing and sales, production and logistics, and systems and technology development.

Core courses for the associate in arts or science degree:

| Course | Uni |
| :---: | :---: |
| Accounting 101, Financial Accounting |  |
| Accounting 102, Managerial Accounting |  |
| Business 150, Introduction to Information Systems and Applications |  |
| Business 222, Business Writing |  |
| Economics 120, Principles/Macro |  |
| Economics 121, Principles/Micro |  |
| Select one of the following |  |
| Business 101, Business Law* (see note) (3) |  |
| Business 105, Legal Environment of Business* (3) |  |
| Select on |  |
| 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 \& Social Sciences (4) |  |

Total $\quad 26-27$
*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 Math 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 <br> Associate in Science in Business Administration for Transfer (sac.bus.ast)

This degree is pending approval from the California Community College Chancellor's Office. Please consult a SAC counselor and the SAC college website for the latest information.

## Business Management (sac.bm.aa)

The associate degree curriculum in business management is designed to enable students to handle basic problems encountered in managing within a business environment including the managing of a marketing program, the making of decisions and problem solving, the coordinating of activities, the influencing of staff, and the understanding of finance. Entry-level careers include management trainees and assistant managers or supervisors.

| Course | Units |
| :--- | ---: |
| Accounting 101, Financial Accounting | 4 |
| Business 100, Fundamentals of Business | 3 |
| Marketing 113, Principles of Marketing | 3 |
| Select ONE course from the following: |  |
| Business 120, Principles of Management (3) |  |
| Management 120, Principles of Management (3) |  |
| Select ONE course from the following: |  |
| Business 222, Business Writing (3) |  |
| Management 122, Business Communications (3) |  |
| Select two courses from the following: |  |
| Business 105, Legal Environment of Business (3) | 6 |
| Business 121, Human Relations \& Organizational Behavior (3) |  |
| Business 125, Introduction to International Business (3) |  |
| Business 127, Introduction to E-Commerce (3) |  |
| Business 140, Principles of Finance (3) |  |
| Business 150, Introduction to Information Systems and |  |
| Applications (3) |  |
| Computer Science 100, The Computer \& Society (3) |  |
| Management 135, Human Resource Management (3) |  |
| Introduction to Information Systems and Applications (3) |  |

Students intending to obtain a bachelor's degree in Business Management should consult the major requirements for upper division standing listed under the Business Administration major. For other related majors, look under Management.

Total
22

## BUSINESS APPLICATONS AND TECHNOLOGY

## Business Applications and Technology Degree and Certificate

The associate degree and certificate curriculum in business applications is designed to prepare students for employment as administrative assistants, secretaries and office support staff in a variety of business offices including legal and international. Includes training in all phases of office work including keyboarding, office procedures, office administration, word processing, desktop publishing, business mathematics, office equipment, and computer operations.

## Business Applications and Technology Degree Core Requirements

| Course | Units |  |
| :--- | ---: | ---: |
| Business Applications 017, Business Writing Skills | 3 |  |
| Business Applications 018, Office Procedures | 3 |  |
| Business Applications 120, Administrative Office Management |  |  |
| Business Applications 035, Computer Fundamentals | 1.5 |  |
|  <br> 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 |  |
|  | Total | 17 |

Major requirements for the associate in arts or science degree:

## General Business Applications and Technology Option Degree (sac.ba.aa)

Major requirements for the associate in arts or science degree and certificate:


## Digital Publishing Option Certificate (sac.badp.ca)

Requirements for the certificate:

| Course | Units |
| :--- | ---: |
| Business Applications 160, Microsoft Publisher | 3 |
| Business Applications 170, Adobe InDesign | 3 |
| Business Applications 164, Introduction to Adobe Photoshop | 3 |
| Business Applications 174, Creating Web Pages with Dreamweaver <br> and Flash | 3 |
| Business Applications 184, Advanced Microsoft Word <br> for the Workplace | 3 |
| Select a minimum of 6 units from the following courses: <br> Business Applications 163, 166, 167, 169, 173, 176, 177, and 187 | 6 |

Total 18

## Microsoft Office Professional Option Degree (sac.bamso.aa)

Major requirements for the associate in arts or science degree and certificate:

| Course | Units |
| :---: | :---: |
| Business Applications and Technology Core Requirements | 17 |
| Business Applications 049, Introduction to Microsoft Access | . 5 |
| Business Applications 066, Microsoft Outlook | 1.5 |
| Business Applications 180, Advanced Microsoft Office | 3 |
| Business Applications 185, Real World Microsoft Projects | 3 |
| Business Applications 189, Excel - Application Projects | . 5 |
| Business Applications 191, PowerPoint - Application Projects | . 5 |
| Select a minimum of 3 units from the following electives: | 3 |
| Business Applications $043,148,150,151,160,174,176,177$, 183, 184, 188 and 190. |  |
| Total | 32 |
| Microsoft Office Professional Option Certificate (sac.bamso.ca) |  |
| 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 \& Accuracy Development I |  |
| Business Applications 148, Advanced Windows | 1.5 |
| Business Applications 179, Introduction to Microsoft Office | 4 |
| Business Applications 180, Advanced Microsoft Office | 3 |
| Business Applications 185, Real World Microsoft Projects | 3 |
| Business Applications 189, Excel - Application Projects | 1.5 |
| Business Applications 191, PowerPoint - Application Projects | 1.5 |
| Total |  |

## Office Management Option Degree (sac.baom.aa)

Major requirements for the associate in arts or science degree and certificate:


## Office Management Option Certificate (sac.baom.ca)

Course
Units
Business Applications 017, Business Writing Skills
—OR—

- OR -

Business 222, Business Writing
Business Applications 018, Office Procedures

$$
\begin{aligned}
& \text { ICe Procedures } \\
& \text {-OR- }
\end{aligned}
$$

Business Applications 120, Administrative Office Management
Business Applications 179, Introduction to Microsoft Office 3
Business 080 , Business Mathematics

## Select 6 units from the following electives:

Accounting 010, 035, 115; Business Applications 035, 038, 043, 049, 066, 115A, 115B, 147, 148, 169, 170, 174, 176, 177, 180, 183, 184, 188, 189, 190 and 192.

## Total

## Spanish/English Interpretation and Translation Option Certificate (sac.base.cert)

Course Units
Spanish 195A, Advanced Conversational Spanish $\quad 3$
Business Applications 056, General Foundation for
Bilingual Business Interpretation-Spanish/English
Business Applications 057, Medical Interpretation \&
Translation-Spanish/English
$\overline{\text { Business Applications 058, Legal Interpretation \& }} 3$
Translation-Spanish/English
Business Applications 059, Court \& Business Work Experience
for Interpreters \& Translators
Business Applications 101, Cooperative Work Experience
Education - Occupational
-OR-
Business 103, Cooperative Work Experience Education -
Occupational
Select 3 units from the following electives:3
Business Applications 017, 038, 115A, 115B, 177, 179;
English 061, 101, 101H; Spanish N51, 101, 101H, 102, 102H, 195B, 212 or 213.

California State University General Education Breadth Certificate of Achievement (sac.csu.ca)
(Complete all CSU General Education Breadth Requirements (Plan B) as outlined on page 40.) (Minimum 39 units)

## CHEMISTRY

## Chemistry Degree (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.

Major requirements for the associate in arts or science degree:

| Course | Units |  |
| :--- | ---: | ---: |
| Chemistry 219, General Chemistry | 5 |  |
| Chemistry 219H, Honors General Chemistry | 5 |  |
| Chemistry 229, General Chemistry \& Qualitative Analysis | 5 |  |
| Chemistry 249, Organic Chemistry I | 5 |  |
| Chemistry 259, Organic Chemistry II | Total | $19-24$ |
| Mathematics 180, Analytical Geometry \& Calculus | 4 |  |

Courses recommended for upper division standing (check with a counselor and the transfer school to verify current courses).

## CHICANO STUDIES

## Chicano Studies Degree (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.
Requirements for the associate in arts degree:

Units
Art 104, Mexican \& Chicano Art History $\quad 3$

Chicano Studies 101, Introduction to Chicano Studies 3
English 246, Survey of Chicano Literature 3

Ethnic Studies 101, Introduction to Ethnic Studies

- OR -

Ethnic Studies 101H, Honors Introduction to Ethnic Studies
History 124, Mexican-American History in the United States 3
History 124H, Honors Mexican-American History in the United States
History 153, History of Mexico $\quad 3$
History 181, Survey of Chicana/Latina Women's History 3
Spanish 101, Elementary Spanish I
Spanish 102, Elementary Spanish II
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 $100 \mathrm{H}, 104$ or $104 \mathrm{H}, 105$, 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; Human Development 221; Music 102 or 102 H ; Sociology 100 or 100 H ; Spanish 201 or 201 H , 202 or 202 H .

## Business Information Science

(See Computer Science)

## CHILD DEVELOPMENT

(See Human Development-Early Childhood)

## COMMUNICATION STUDIES

Option 1<br>Communication Studies (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.
Major requirements for the associate in arts degree:

## Course

Units
Communication Studies 101, Introduction to
Interpersonal Communication
Communication Studies 101H, Honors Introduction to Interpersonal Communication
Communication Studies 102, Public Speaking 3
Communication Studies 103, Introduction to
Intercultural Communication
-OR-
3
Communication Studies 103H, Honors Introduction to
Intercultural Communication
Communication Studies 140, Argumentation \& Debate
Communication Studies 145, Group Dynamics
One additional elective from the following:
Communication Studies 151, Voice \& Diction for Effective Communication (3)
Communication Studies 152, Oral Interpretation (3)
Communication Studies 170, Introduction to Phonetics (3)
Communication Studies 206, Gender Communication (3)
Communication Studies 206 $\overline{\mathrm{H}}$, Honors Gender Communication (3)

Total

## Option 2 <br> Associate in Arts in Communication Studies for Transfer (sac.cmst.aat)

The Associate in Arts in Communication Studies for Transfer (AA-T) prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree in communication studies. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the AA-T degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU, Fullerton, in the Communication Studies major. See page 39 for a list of additional requirements for all Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AA-S) degrees. Upon completion of the AA-T in Communication Studies students will have a general understanding of the main communication studies theories as they pertain to interpersonal communication, public speaking, interpersonal communication and argumentation and debate. Students will have the capacity to write and think in a critically analytical way about issues pertaining to the process of human communication.
Course

## 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-
-OR- Communication Studies 103H, Honors Introduction to Intercultural CommunicationCommunication Studies 151, Voice and Dictionfor Effective Communication3
Communication Studies 152, Oral Interpretation ..... 3
Television/Video Communications 105, Mass Media and Society ..... 3
Television/Video Communications 105H, Honors Mass Mediaand Society
List C - select one course (3 units)
Any course not selected above

Anthropology 100, 100H; Communication Studies 158, 170, 206, 206H; Communications and Media Studies 111; English 102, 102H; Psychology 100, 100H; Sociology 100, 100H 3
Total Units for the Major ..... 18
COMMUNICATIONS AND MEDIA STUDIES

## Associates Degree in Communications and Media Studies

The Department of Communications and Media Studies at Santa Ana College offers students a unique blend of theory and practice. The program provides critical and cultural analysis of media and communications, while offering comprehensive study in traditional narrative nonfictional prose styles. In conjunction with a hands-on production sequence in print, digital and Web-based multimedia, students build their production skills while learning to analyze, evaluate and deconstruct media images and messages considering the broad influence of communications on individuals and society. Students study, and practice narrative nonfictional prose writing across the Communications and Media Studies Department curriculum. In addition to classroom settings, students may also develop their production skills through the media lab, and work at the college's nationally acclaimed print, digital and Web-based publications el Don and West 17th. 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 multimedia reporting, visual reporting, photography, 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 reporting, multimedia storytelling, writing, editing, photography and digital design skills.

Major requirements for the associate in arts degree:
Option 1 (A)
Degree Program A-Communications and Media Studies (sac.cmsda.aa)

| Course | Units |
| :--- | ---: |
| Communications and Media Studies 102, Multimedia Storytelling 3 |  |
| Communications and Media Studies 103, Visual Communicatioins3 |  |
| Communications and Media Studies 110, Introduction to Narrative |  |
| 4 |  |
| Nonfiction |  |
| Communications and Media Studies 121, Writing \& Reporting for |  |
| Media | 3 |
| Communications and Media Studies 122, Editing for Print and | 3 |
| Digital Media |  |
| Communications and Media Studies 123, News Media Production | 4 |
| Communications and Media Studies 124, Magazine Writing for | 3 |
| Print |  |
| and Digital Media | 3 |
| Communications and Media Studies 201, Visual Reporting | 2 |
| Communications and Media Studies 222, Writing Across Media | 3 |
| Communications and Media Studies 298, Designing for Print and 3 |  |
| Digital Media |  |

Option 1 (B)

Degree Program B-Broadcast Communications and
Media Studies Emphasis (sac.cmsdb.aa)

| C | Un |  |
| :---: | :---: | :---: |
| Communications and Media Studies 121, Writing \& Reporting for 3 Media |  |  |
| Television/Video Communications 100, Introduction to Electronic Media: Broadcasting, Cable, Video |  |  |
| Television/Video Communications 105, Mass Media \& S |  |  |
| Television/Video Communications 110, Television Studio \& Equipment Orientation |  |  |
| Television/Video Communications 111, Television Production |  |  |
| Communications and Media Studies 130, Principles of Broadcast News |  |  |
| Television/Video Communications 141, On-Camera Appearance |  |  |
| Communications and Media Studies 230A, Broadcast News Production |  |  |
| Communications and Media Studies 230B, Broadcast News Production |  |  |
| Communication Studies 101, Introduction to Interpersonal Communication (3) |  |  |
| Communication Studies 101H, Honors Introduction to Interpersonal Communication (3) |  |  |
| Communication Studies 151, Voice \& Diction for Effective Communication |  |  |

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

Recommended electives: English 241, 242, 243; History 118 or 118H, 120 or 120H, 121 or 121H; Communication Studies 140, 152; Communications and Media Studies *N98, 098, 122, 123, 124, 198, 222, 230CD; Philosophy 110; Political Science 101 or 101H; Psychology 100 or 100H; Television/Video Communications 009, *N98, 098, 101, 112, 120, 121, 131, 142, 150, 160, 161, 180, 198, 211, 260; Theatre Arts 110.
*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 <br> Associate in Arts in Journalism for Transfer (sac.cmsd.att)

This degree is pending approval from the California Community College Chancellor's office. Please consult a SAC counselor and the SAC website for the latest information.

## Certificate in Communications and Media Studies (sac.cmsd.ca)

The certificate program in Communications and Media Studies offers students a unique blend of theory and practice. The program provides critical and cultural analysis of media and communications in conjunction with a hands-on production sequence in print, digital and Web-based multimedia, leading to potential entry-level positions in multimedia and communications fields.

## Course <br> Units

Communications and Media Studies 102, Multimedia Storytelling 3 Communications and Media Studies 103, Visual Communicatioins3
Communications and Media Studies 110, Introduction to Narrative
4
Nonfiction
Communications and Media Studies 121, Writing \& Reporting for 3 Media
Communications and Media Studies 123, News Media Production 4
Communications and Media Studies 125, Media Editing Workshop 1.5

Communications and Media Studies 201, Visual Reporting $\quad 2$
Communications and Media Studies 222, Writing Across Media 3
Communications and Media Studies 298, Designing for Print and 3 Digital Media

Total

## COMMUNITY SOCIAL SERVICES

## Community Social Services Degree (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 Hu man 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.

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 |
| Psychology 157, Introduction to Child Psychology  <br> Sociology 112, Relationships, Marriages, and Family Dynamics  <br> Psychology 100, Introduction to Psychology  <br> -OR一- 3 <br> Psychology 100H, Honors Introduction to Psychology  <br> Select a minimum of 6 units from the electives below: 6$\quad$ Total | 18 |

Electives (all electives are 3 units unless otherwise noted): Anthropology 100 or 100 H , Biology 149 ( 4 units), Counseling 116, Counseling 120, Education 100, Education 210, Human Development 116A, Human Development 110, Human Development 205, Human Development 220, Math 219 (highly recommended) or 219H (4 units), Math 105, Psychology 250, Social Science 219 or 219H (4 units), Sociology 100 or 100 H , Sociology 112 or Psychology 100 or 100 H , if not chosen from above.

## COMPUTER INFORMATION SYSTEMS

## Computer Information Systems (sac.cis.as)

The associate degree curriculum in Computer Information Systems is concerned with the development of procedures which 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.
Major requirements for the associate degree:


Units
3

## 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)
-OR -
Computer Science 100, The Computer \& Society (3)
Select ONE course from the following:
Computer Science 134B, Windows Vista Operating System (3)
Computer Science 134C, Microsoft Windows 7 Operating System (3)
-OR -
Computer Science 134D, Microsoft Windows 8 Operating System (3)
Select ONE course from the following:
Computer Science 247B, Windows Server 2008 (3)
Computer Science 247C, Windows Small Business (SBS) 20113 - Standard (3)
-OR -
Computer Science 247D Windows Server 2012 (3)
Select a minimum of THREE units from the following: 3
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 (1-4)
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 Compute 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
Database (sac.cisdb.cert)
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 (sac.cmpres.cert)

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)
3
Computer Science 247C, Windows Small Business Server (SBS)2011-Standard (3)

Total
12


Computer Science 134C, Microsoft Windows 7 Operating System (3)

## Networking (sac.cisnw.cert)

Take ALL of the following courses: Units
Computer Science 136, Building a Small Office/Home Office 1.5 Network
Computer Science 139, Configuration and Administration of $\quad 1.5$
Local Area Networks
Computer Science 173, Introduction to Networking Technology 3
Select ONE course from the following:
Computer Science 134B, Windows Vista Operating System (3) 3
Computer Science 134C, Windows 7 Operating System (3)
Select ONE course from the following:
Computer Science 247B, Microsoft Windows Server 2008 (3) 3
Computer Science 247C, Windows Small Business Server (SBS)2011-Standard (3)

## PC Maintenance and Troubleshooting (sac.cmprm.cert)

The associate degree and certificate curriculum in Computer Information Systems is concerned with the development of procedures which 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.

| Take ALL of the following courses: | Units |
| :--- | ---: | ---: |
| Computer Science 135, Software Deployment Mechanisms | 1.5 |
| Computer Science 136, Building a Small Office/Home Office <br> Network | 1.5 |
| Computer Science 137, Personal Computer Troubleshooting | 3 |
| Computer Science 139, Configuration and Administration of <br> Local Area Networks | 1.5 |
| Computer Science 173, Introduction to Networking Technology | 3 |
| Select ONE course from the following: <br> Computer Science 134B, Windows Vista Operating System (3) | 3 |
| Computer Science 134C, Windows 7 Operating System (3) |  |
| Select ONE course from the following: <br> Computer Science 247B, Microsoft Windows Server 2008 (3) | 3 |
| Computer Science 247C, Windows Small Business Server <br> (SBS)2011-Standard (3) |  |

## UNIX Certificate (sac.cisux.cert)

Take ALL of the following courses: Units
Computer Science 117, Perl Programming \& CGI 3
Computer Science 141, UNIX Operating System $\quad 3$
Computer Science 142, Advanced UNIX 3
Computer Science 243, UNIX System Programming $\quad 3$

## Web Programming (sac.ciswp.cert)

| Take the following $\mathbf{3}$ courses: | Units |
| :--- | ---: |
| Computer Science 105, Visual BASIC Programming | 3 |

Computer Science 205, Advanced Visual BASIC -3
Computer Science 206, Visual BASIC for Web Development
Select ONE course from the following:
Computer Science 112, Java Programming (3) 3
Computer Science 213, C\# Programming (3)
Select ONE course from the following:
Computer Science 117, Perl Programming \& CGI (3)
Computer Science 118, JavaScript - Programming (3)
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

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.

## Computer Science (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:

Take ALL of the following courses: Units
Computer Science 100, The Computer \& Society 3
Computer Science 120, Introduction to Programming 3
Computer Science 121, Programming Concepts 3
Computer Science 129, Introduction to Computer Organization 4
$\overline{\text { Computer Science 131, Data Structures Concepts }} 3$
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:
Computer Science 112, Java Programming (3)
Computer Science 117, Perl Programming and CGI (3)
Computer Science 118, JavaScript Programming (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

## Computer Science (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.

Major requirements for the certificate:
Take ALL of the following courses:
Units
Computer Science 100, The Computer \& Society
Computer Science 120, Introduction to Programming $\quad 3$
Computer Science 121, Programming Concepts $\quad 3$
Computer Science 129, Introduction to Computer Organization 4
$\overline{\text { Computer Science 131, Data Structures Concepts }} 3$
Select ONE course from the following:
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:
Computer Science 112, Java Programming (3)
Computer Science 117, Perl Programming and CGI (3)
Computer Science 118, JavaScript Programming (3)
Computer Science 134C, Microsoft Windows 7 Operating System (3)
Computer Science 134D, Microsoft Windows 8 Operating System (3)

4

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

## Programming Certificate (sac.cmrp.ca)

| 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) |
| Computer Science 205, Advanced Visual BASIC (3) |
| Computer Science 213, C\# Programming (3) |

## CRIMINAL JUSTICE

The Criminal Justice associate degree curriculum is designed to provide students with a solid base for additional study at a four-year institution and for entry level employment in federal, state, local or private criminal justice agencies. Completion of the law enforcement certificate program exceeds the minimum P.O.S.T. requirements for entry level employment as peace officers. Completion of course requirements listed for the law enforcement reserve officer provides students with the knowledge and skills in excess of those required by the California Commission on P.O.S.T. for entry level service as a reserve officer. The Law Enforcement Custody and Advanced Officer course offerings are designed to upgrade the skills and knowledge required for employed peace officers as well as to provide knowledge and skills based on new legal and/or judicial rulings.

## Corrections Officer Certificate Program (sac.cjco.cert)

| Course | Units |  |
| :--- | :--- | ---: |
| Criminal Justice 048, Writing Skills for Criminal Justice Personnel 3 |  |  |
| 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 |  |  |
| Criminal Justice 205, Criminal Investigation |  | 3 |
|  | Total | 18 |

Criminal Justice 048, Writing Skills for Criminal Justice Personnel 3
Criminal Justice 101, Introduction to Criminal Justice
Criminal Justice 102, Introduction to Corrections
Cinal Justice 100, Concepts of Criminal Law

Total
18

## Option 1 <br> Criminal Justice Option Degree (sac.cj.aa)

Major requirements for the associate in arts degree:

| Course | Units |
| :--- | ---: |
| Criminal Justice 048, Writing Skills for Criminal Justice Personnel 3 |  |
| 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 \& Procedures in the | 3 |
| Criminal Justice System |  |
| Criminal Justice 205, Criminal Investigation Principles | 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 109, Community Interaction (3) |  |
| Criminal Justice 110, Street Gangs (3) |  |
| Criminal Justice 209, Organized Crime (3) |  |
| Criminal Justice 210 Drug Abuse and Criminal Justice (3) |  |
| Criminal Justice 220, Juvenile Delinquency \& Control (3) |  |

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 <br> Associate in Science in Administration of Justice for Transfer

This degree is pending approval from the California Community College Chancellor's Office. Please consult a SAC counselor and the SAC college website for the latest information.

## Law Enforcement Option Certificate (sac.cjle.ca)

The Criminal Justice associate degree curriculum is designed to provide students with a solid base for additional study at a four-year institution and for entry level employment in federal, state, local or private criminal justice agencies. Completion of the law enforcement certificate program exceeds the minimum P.O.S.T. requirements for entry level employment as peace officers. Completion of course requirements listed for the law enforcement reserve officer provides students with the knowledge and skills in excess of those required by the California Commission on P.O.S.T. for entry level service as a reserve officer. The Law Enforcement Custody and Advanced Officer course offerings are designed to upgrade the skills and knowledge required for employed peace officers as well as to provide knowledge and skills based on new legal and/or judicial rulings.

## Major requirements for the certificate:

| Course | Units |  |
| :--- | ---: | ---: |
| Criminal Justice Academies 010, Pre-Employment Preparation for 1 <br> Law Enforcement |  |  |
| Criminal Justice Academies 100A, Basic Police Academy | $19-21$ |  |
| 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 \& Procedures in the <br> Criminal Justice System | 3 |  |
| Criminal Justice 109, Community Interaction |  | 3 |
|  | Total | $35-37$ |

## DANCE

## Dance Degree Program A-Dance (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, dance history and world dance and cultures. The dance program is designed for both the student who wishes to major in dance and the student seeking an acquaintance with the practice and theory of dance. 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, studio and arts management, arts consultancy, dance criticism, fitness, and related fields.
Major requirements for the associate degree in dance:

| Course | Units |
| :--- | ---: |
| Dance 100, Dance History \& Appreciation | 3 |
| Dance 100H, Honors Dance History \& Appreciation |  |
| Dance 130, Dance Improvisation | 1 |
| Dance 201B, Ballet II | 4 |
| 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 |
| Electives from recommended list | Total |

Recommended electives: Dance 009, 010, 02, 103, 106A, 106B, 107, 108A, 108B, 110, 111, 112, 117, 118, 119B, 122, 123, 124, 140, 180, 198, 201A, 202A, 205, 206A, 214, 219A, 240A, 240B, 250A, 250B, 251, 261, 262, 263, 270, 296, 297, 298.

## Dance Certificate (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.

Requirements for the certificate:

| Course | Units |
| :--- | ---: |
| 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 |

Recommended electives: Dance 009, 010, 105, 107, 109ABC. 110, 111, 112, 117, 118, 123, 124, 130, 198, 250AB, 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 (sac.dsl.as) and Certificate (sac.dsl.ca)

The associate degree and 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.

Major requirements for the associate degree and certificate:

| Course | Units |  |
| :--- | ---: | ---: |
| Diesel 008, Oxyacetylene-Arc Welding | 3 |  |
| Diesel 009, Chassis Overhaul | 8 |  |
| Diesel 021, Mid-Range Diesel Engine Service | 4.5 |  |
| Diesel 025, Diesel \& Heavy Duty Diesel Engine Overhaul | 8 |  |
| Diesel 032, Diesel Fuel Injection Systems Service | 5 |  |
| Diesel 040, Diesel Electrical Systems | 5 |  |
| Electives | 3 |  |
|  | Total | 36.5 |

Electives: Business 170; Diesel 003, 010, 013, 015, 022, 024, 050, 055 , $062,068,069,070,071,072,073,075,076,077,078,079,080,095$; Communication Studies 101 or 101H; English *N60; Manufacturing Technology 053, 188; Mathematics *N05A, *N05B, *N05C; Reading *N90AB.
*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.

## Mid-Range Engine Service Option Degree (sac.dslmr.as) and Certificate (sac.dslmr.ca)

The associate degree and 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 foreign 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.

Major requirements for the associate degree and certificate:

| Course | Units |  |
| :--- | ---: | ---: |
| Diesel 025, Diesel \& Heavy Duty Diesel Engine Overhaul | 8 |  |
| Diesel 008, Oxyacetylene-Arc Welding | 3 |  |
| Diesel 021, Mid-Range Diesel Engine Service | 4.5 |  |
| Diesel 040, Diesel Electrical Systems | 5 |  |
| Electives | 3 |  |
|  | Total | 23.5 |

Select electives from the following list:
Business 170; Communication Studies 101 or 101H; Diesel 022, 024 , 076, 095; English *N60; Mathematics *N05A*, N05B*, N05C, 053; Manufacturing Technology 188; Reading *N90AB.
*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.

## Transport Refrigeration/Temperature Control Option Certificate (sac.dsltr.cert)

The certificate curriculum in transport refrigeration is designed to prepare students to enter the field as an apprentice or helper service technician. The factory approved 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 units operation to maintain desired product temperature to protect the consumer's health. Employment opportunities for men and women exist in this rapidly expanding field.

Major requirements for the certificate:

| Course | Units |
| :--- | ---: |
| Diesel 021, Mid-Range Diesel Engine Service | 4.5 |
| Diesel 032, Diesel Fuel Injection Systems Service | 5 |
| Diesel 040, Diesel Electrical Systems | 5 |
| Diesel 050, Transport Refrigeration (8) | $4-8$ |
| Diesel 055, Marine Container Refrigeration (4) |  |

## Drafting Technology <br> (See Engineering)

## Dressmaking and Alterations

(See Fashion Design and Custom Clothing)

## EARTH SCIENCE

## Earth Science Degree (sac.es.aa)

The associate degree curriculum in earth Science prepares students for transfer to a four-year institution leading to a baccalaureate degree in Earth Science 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 skills necessary for opportunities with Geotechnical or Environmental consulting firms or with government agencies such as the National Park Service.

Major requirements for the associate in arts degree:
Course Units

Astronomy 110, Introduction to Stars \& Galaxies 3
Astronomy 140, Astronomy Laboratory $\quad 1$
Chemistry 209, Introduction to Chemistry
Chemistry/Physical Science 115, Physical Science for Educators*
Earth Science 115, Earth Science for Educators*
Geology 101, Introduction to Geology
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 $\quad 2$
Electives: Geology 111, 112, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 176
*Recommended courses for those preparing to teach middle school science.

## ECONOMICS

## Economics Degree (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.
Major requirements for the associate in arts degree:

| Course | Units |
| :--- | ---: |
| Accounting 101, Financial Accounting |  |
| Accounting 101H, Honors Financial Accounting | 4 |
| Accounting 102, Managerial Accounting | 4 |
| Accounting 102H, Honors Managerial Accounting | 3 |
| Economics 120, Principles/Macro | 3 |
| Economics 121, Principles/Micro | 4 |
| **Social Science 219, Statistics \& Probability |  |
| **Social Science 219H, Honors Statistics \& Probability |  |
| Business 150, Introduction to Computing \& Application Software | 4 |
| *Mathematics 145, Finite Mathematics |  |

* Mathematics course chosen should be determined by the requirements of the intended upper division school of the student's choice.
Social Science $219 / 219 \mathrm{H}$ is alternately listed as Mathematics 219/219H.
Recommended electives: Business 101, 102, 120.


## EDUCATION

## Option 1 <br> Elementary Education Degree (pre-professional) (sac.educe.aa)

The Associate of Arts degree in Elementary Education (Pre-Professional) is designed to prepare students for transfer to a four-year university to obtain a bachelors 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.

Major requirements for the associate degree:

| Course | Units |
| :---: | :---: |
| Education 100, Introduction to Education | 3 |
| Human Development 107, Child Growth \& Development |  |
| Psychology 157, Introduction to Child Psychology |  |
| Biology 115, Concepts in Biology for Educators |  |
| Earth Science 115, Earth Science for Educators |  |
| Physical Science 115, Concepts in Physical Sciences for Educators |  |
| Chemistry 115, Concepts in Physical Science for Educators |  |
| Mathematics 105, Mathematics for Liberal Arts Students (3) | 3-4 |
| Mathematics 203, Fundamental Concepts of Mathematics (4) |  |
| English 270, Children's Literature |  |

History 120 or 120 H , The United States to 1865
History 118, Social \& Cultural $\begin{gathered}\text {-OR- } \\ \text { History } \\ \text {-OR- }\end{gathered}$ of the United States
Political Science 101, Introduction to American Government
Political Science 101H, Honors Introduction to American Government
Geography 100, World Regional Geography
Geography 100H, Honors World Regional Geography
Art 100 or 100 H , Introduction to Art Concepts
-OR-
Art 101 or 101 H , Survey of Western Art History
Art 102, Western Art History
-OR-
Dance 100, Dance History and Appreciation
Dance 100H, Honors Dance History and Appreciation
-OR-
Dance 102, Introduction to Dance Forms
-OR -
Music 101, Music Appreciation -OR-
Music 101 H , Honors Music Appreciation
Theatre Arts 100, Introduction to Theatre

And ONE of the Following:
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 or 104 H , Language \& Culture (3)
History 133, History of California (3)
Human Development 110, Child, Family \& Community (3)
Human Development 205, Exceptionality \& 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 <br> Associate in Arts in Elementary Teacher Education for Transfer (sac.eted.aat)

The Associate in Arts in Elementary Teacher Education for Transfer (AA-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 AA-T degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU, Fullerton, in the Liberal Studies major. See page page 39 for a list of additional requirements for all Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T) degrees. Upon completion of the AA-T in Elementary Teacher Education students will have a strong foundation in introductory content area subject matter requirements for teaching at the elementary school level. Students will also have the opportunity to participate in supervised fieldwork in K-12 settings.
Course Units
Education 100, Introduction to Education3
Earth Science 115, Earth Science for Educators ..... 4
Communication Studies 102, Public Speaking ..... 3
English 101, Freshman Composition ..... 4
English 101H, Honors Freshman CompositionChemistry 115, Concepts in Physical Science for Educators-OR-4
Physical Science 115, Concepts in Physical Science for EducatorsBiology 115, Concepts in Biology for Educators (4)3 Biology 109, Fundamentals of $\begin{gathered}\text { Biology (3) } \\ -\mathrm{OR}-\end{gathered}$
Biology 109H, Honors Fundamentals of Biology (3)Biology 109L, Fundamentals of Biology Lab1
Math 203, Fundamentals Concepts of Elementary Mathematics ..... 4
History 101, World Civilizations to the 16th Century ..... 3
History 101H, Honors World Civilizations to the 16th Century
English 102, Literature and Composition4
English 102H, Honors Literature and CompositionGeography 100, World Regional Geography3
Geography 100H, Honors World Regional Geography3 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
Human Development 107, Child Growth and Development OR-OR-3
!in!

Select ONE of the Following:
English 103, Critical Thinking and Writing (4)
English 103 H , Honors Critical Thinking and Writing (4)
Philosophy 110, Critical Thinking (4)
Philosophy 110 H , Honors Critical Thinking (4)
Select ONE of the Following:
Art 100, Introduction to Art Concepts (3)
Art 100 H , Introduction to Art Concepts (3)
Dance 100, Dance History and Appreciation (3)
Dance 100 H , Dance History and Appreciation (3)
Dance 102, Introduction to Dance Forms (3)
Music 101, Music Appreciation (3)
Music 101 H , Music Appreciation (3)
Theater 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)
English 104, Language and Culture (3)
English 104H, Honors Language and Culture (3) -OR -
Anthropology 104, Language and Culture (3)
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)
Ethnic Studies 101H, Honors Introduction to Ethnic Studies (3)
Math 105, Math for Liberal Arts Students (3)
Philosophy 106, Introduction to Philosophy (3)
Philosophy 106 H , 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)
Geography 102H, Honors Cultural Geography (3)
Kinesiology Professional 140, Movement Education for
Elementary School Children (3)
Total Units for the Major
58

4 After School Program Assistant Certificate (sac.educa.cert)

The After School Program Assistant Certificate is intended to prepare a student for an entry-level 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.

Requirements for the After School Program Assistant Certificate:

| Course | Units |  |
| :--- | ---: | ---: |
| Human Development 113, Tutoring Reading in <br> Elementary Schools | 1 |  |
| Counseling/Human Development 114, Careers in Teaching | 1 |  |
| Counseling 106, Inquires into Higher Education | 1 |  |
| Human Development 120, Development of the School Age Child | 3 |  |
| Human Development 121, School Age Child Care Activities | 3 |  |
| Math 060, Elementary Algebra* | 4 |  |
| English 061, Introduction to Composition* |  | 3 |
|  | Total | 16 |
| *Successful course completion or test score |  |  |

## After School Program Associate Teacher Certificate (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 / homework assistance, or assist in academic enrichment programs.Completion of the required courses for this certificate plus 50 days of experience (minimum of 3 hours per day) qualify for the school age emphasis for the State Child Development Associate Teacher Permit.

Requirements for the After School Program Assistant Certificate:
$\left.\begin{array}{lr}\text { Course } & \text { Units } \\ \hline \begin{array}{l}\text { Human Development 113, Tutoring Reading in Elementary Schools } \\ 1\end{array} & 1 \\ \hline \text { Counseling 114, Careers in Teaching } \\ \text {-OR }\end{array}\right]$

## Education-Special Education Paraprofessional/ Instructional Assistant Certificate (sac.hudse.ca)

This certificate program, Special Education Paraprofessional/Instructional Assistant supports the current requirements of federal legislation that all paraprofessionals/instructional assistants/aides, teacher assistants in Title I schools be "highly qualified". The successful completion of this certificate will prepare the student for an entry-level position requiring practical skills and knowledge to work with persons with disabilities in a variety of educational and rehabilitation settings. In addition, the courses introduce the student to career opportunities in special education or other disability related fields and provide preparation for transfer to four-year institutions to continue a course of study in special education.

Major requirements for the associate degree and certificate:

| Course | Units |
| :--- | ---: |
| Counseling 150, Introduction to Human Services | 3 |
| Education 209, Roles \& Responsibilities of the | 3 |
| $\quad$ Special Education Paraprofessional | 3 |
| Education 211, Classroom Practices for Diverse Learners | 3 |
| Human Development 107, Child Growth \& Development (DS1) | 3 |
| Psychology 157, Introduction to Child Psychology | 3 |
| Human Development 205, Exceptionality \& Special Needs in <br> Human Development | 3 |
| Human Development 208, Working with Families of Children <br> with Special Needs | 3 |

## ENGINEERING

## Engineering Degree (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.

Major requirements for the associate degree:

| Course | Units |
| :--- | ---: |
| Engineering 100A, Introduction to Engineering | 2 |
| Engineering 122, Engineering Drawing |  |
| Engineering 125, Engineering Graphics | 3 |
| Engineering 183, AutoCAD I-Computer Aided Drafting | 3 |
| Engineering 235, Statics | 3 |
| Mathematics 180, Analytic Geometry \& Calculus | 4 |
| Mathematics 180H, Honors Analytic Geometry \& Calculus | 4 |
| Mathematics 185, Analytic Geometry \& Calculus | 4 |
| Physics 217, Engineering Physics I | 4 |
| Physics 227, Engineering Physics II | 4 |
| Physics 237, Engineering Physics III | 4 |
| Chemistry 219, General Chemistry |  |
| Chemistry 219H, Honors General Chemistry | 5 |

## 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 (sac.enrct.as) and Certificate (sac.enrct.ca)

The associate degree and certificate 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 which employ engineering assistants.
Major requirements for the associate degree and certificate:

| Course | Units |
| :--- | ---: |
| Engineering 100B, Introduction to Architecture/ <br> Civil Engineering/Construction (AEC) | 2 |
| Engineering 118, Plane Surveying | 4 |
| Engineering 183, AutoCAD I-Computer Aided Drafting | 3 |
| Engineering 184, AutoCAD 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: <br> Engineering 122, Engineering Drawing <br> -OR |  |
| Engineering 125, Engineering Graphics |  |
| Select ONE of the Following: |  |
| Engineering 119, Advanced Plane Surveying (4) <br> Engineering 205, Civil Digital Computations (3) |  |
|  | Total |

## Engineering Computer Aided Drafting and Design Degree (sac.enrca.as) and Certificate (sac.enrca.ca)

The associate degree and certificate curriculum is a comprehensive program in computer aided parametric 2D and 3D drafting and design. The program is most appropriate for students with an engineering discipline background seeking competency in Computer Drafting and Design Software (CAD). Class problem and project work includes application in mechanical, electronic, civil, surveying, architecture, and other major engineering disciplines.

Major requirements for the associate degree and certificate:

| ourse | Units |
| :---: | :---: |
| Business Applications 147, Introduction to Windows | 1.5 |
| Engineering 100A, Introduction to Engineering |  |
| Engineering 100B, Introduction to Architecture/ Civil Engineering/Construction (AEC) |  |
| Engineering 122, Engineering Drawing |  |
| Engineering 125, Engineering Graphics |  |
| Engineering 183, AutoCAD I-Computer Aided Drafting |  |
| Engineering 184, AutoCAD II-Computer Aided Drafting |  |
| Engineering 185, AutoCAD III-Computer Aided Drafting |  |
| Engineering 186, AutoCAD 3-Dimensional Drawing |  |
| Select 6 units from the following list: |  |
| Engineering 012, 027, 051, 110, 114, 115, 124, 142, 154, 187, 191, 193 and 228. |  |
| Total | 24 |

## Engineering Drafting and Design Degree and Certificate

The associate degree and 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.

## Option I-Engineering Drafting and Design (sac.enrdd.as)(sac.enrdd.ca)

The certificate prepares the student for employment as a professional drafter/designer in the mechanical, aerospace, manufacturing, biomedical, or industrial engineering fields. Many courses are applicable to lower-division preparation leading to a bachelor's degree in engineering technology at a four-year institution.

Major requirements for the associate degree and certificate:

| Course | Units |
| :---: | :---: |
| Engineering 100A, Introduction to Engineering |  |
| Engineering 122, Engineering Drawing |  |
| Engineering 125, Engineering Graphics |  |
| Engineering 124, Advanced Drawing |  |
| Engineering 183, AutoCAD I-Computer Aided Drafting |  |
| Engineering 130A, CATIA Solid Modeling I |  |
| Engineering 140A, ProEngineer Solid Modeling I |  |
| Engineering 188, Machine Technology Survey |  |
| Select six (6) additional units from the following list: |  |
| Engineering 027, 051, 110, 114, 130A, 130B, 140A, 140B; Manufacturing Technology 028, Mathematics 160. |  |
| Total | 23 |

## Engineering Drafting and Design Degree Option IIArchitectural/Civil Engineering/Construction Drafting and Design (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.

Major requirements for the associate degree:

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

## Engineering Drafting and Design Certificate: Option II-Architectural/Civil Engineering/ Construction Drafting and Design (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.

Major requirements for the certificate:

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

## Mechanical 3D Solid Modeling CAD (sac.engr3d.as)

Curriculum focuses on developing competency in parametric solid modeling CAD software that is used heavily in the mechanical, aerospace, industrial, \& biomedical engineering fields.

Major requirements for the associate degree:

| Course | Units |  |  |
| :--- | ---: | :---: | :---: |
| Engineering 103, Solidworks Basic Solid Modeling | 3 |  |  |
| Engineering 104, Solidworks Intermediate Solid Modeling | 3 |  |  |
| Manufacturing Technology 106, Solidworks Drawings | 3 |  |  |
| Engineering 122, Engineering Drawing | 3 |  |  |
| Engineering 125, Engineering Graphics |  |  |  |
| Select 2 courses from the following: |  |  |  |
| Engineering 130A, CATIA Solid Modeling I (3) | $3-3$ |  |  |
| Engineering 130B, CATIA Solid -- Modeling II (3) |  |  |  |
| Engineering 140A, ProEngineer Solid Modeling I (3) |  |  |  |
| Engineering 140B, ProEngineer Solid Modeling II (3) |  |  |  |
| Total |  |  | 18 |

## Mechanical 3D Solid Modeling CAD (sac.engr3d.cert)

Curriculum focuses on developing competency in parametric solid modeling CAD software that is used heavily in the mechanical, aerospace, industrial, \& biomedical engineering fields.

Major requirements for the certificate:

| Course | Units |
| :---: | :---: |
| Engineering 103, Solidworks Basic Solid Modeling | 3 |
| Engineering 104, Solidworks Intermediate Solid Modeling | 3 |
| Manufacturing Technology 106, Solidworks Drawings | 3 |
| Engineering 122, Engineering Drawing | 3 |
| Engineering 125, Engineering Graphics |  |
| Select 2 courses from the following: | 3-3 |
| Engineering 130A, CATIA Solid Modeling I (3) |  |
| Engineering 130B, CATIA Solid Modeling II (3) |  |
| Engineering 140A, ProEngineer Solid Modeling I (3) |  |
| Engineering 140B, ProEngineer Solid Modeling II (3) |  |
| Total | 18 |

## Engineering Industrial Technology Degree (sac.enrit.as) and Certificate (sac.enrit.ca)

The associate degree and certificate curriculum in Engineering Industrial Technology leads to employment as a mechanical, industrial, or manufacturing technician and supervisor. Opportunities for employment exist primarily in private manufacturing industries in areas such as production planning, quality control, inspection and testing, and production supervision.

Major requirements for the associate degree and certificate:
$\left.\begin{array}{lr}\text { Course } & \text { Units } \\ \hline \text { Engineering 100A, Introduction to Engineering } & 2 \\ \hline \text { Engineering 122, Engineering Drawing } \\ \hline \text { OR }\end{array}\right)$

## Energy Analysis Degree (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.

Take each of the following courses:

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

## Energy Analysis (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.

Major requirements for the associate degree and certificate:

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

## ENGLISH

## English Degree (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.
Major requirements for the associate in arts degree:
Course
English 102, Literature \& Composition
English 102H, Honors Literature \& Composition
English 231-232, Survey of English Literature
English 241-242, America in Literature
English 271-272, Survey of World Literature
Electives from list below
-AND -

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. But no more than 3 units in either English 211, English 212, English 214 or English 215.
Note: Students planning to transfer to 4-year schools should consult with English departments at those institutions regarding specific lower division requirements and unit limits.

## ENTREPRENEURSHIP

## Entrepreneurship And Innovation Degree (sac.entei. aa) and Certificate (sac.entei.ca)

The associate degree and certificate in Entrepreneurship and Innovation is designed to give all student 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. Student 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 \& entrepreneurship. Specialized topics include: building a team, bootstrap marketing, finances \& resources, opportunity assessment, design techniques, powerful presentations and more. Many classes are taught in "short sequence formats" of $4-8$ weeks.

## Entrepreneurship and Innovation Degree (sac.entei.aa)

Core Requirements:

| Course | Units |
| :--- | ---: |
| Entrepreneurship 100, Introduction to Innovation and <br> 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 <br> Validation | 2 |
| Entrepreneurship 106, Building an Entrepreneurial Team | 2 |
| Entrepreneurship 107, Money, Finance and Accounting for <br> Entrepreneurs | 2 |
| Entrepreneurship 108, Business Plans for Entrepreneurs | 2 |
| Entrepreneurship 109, Powerful Presentations | 2 |
| Choose 1 elective from the following list: | 3 |

Business 170, Principles of Small Business Management (3)
Entrepreneurship 110, Capstone Business Simulations (3)
Entrepreneurship 111, Capstone Entrepreneurial Case Studies (3)

Total

## Entrepreneurship and Innovation Certificate (sac.entei.ca)

Core Requirements:

| Course | Units |
| :--- | ---: |
| Entrepreneurship 100, Introduction to Innovation and <br> 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 <br> Validation | 2 |
| Entrepreneurship 106, Building an Entrepreneurial Team | 2 |
| Entrepreneurship 107, Money, Finance and Accounting for | 2 |
| $\quad$ Entrepreneurs |  |
| Entrepreneurship 108, Business Plans for Entrepreneurs | 2 |
| Entrepreneurship 109, Powerful Presentations | 2 |
| Choose 1 elective from the following list: <br> Business 170, Principles of Small Business Management (3) | 3 |
| Entrepreneurship 110, Capstone Business Simulations (3) |  |

Total

## ETHNIC STUDIES

## Ethnic Studies Degree (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.
Major requirements for the associate in arts degree:
Course Units
Anthropology 100, Introduction to Cultural Anthropology 3
Anthropology 100 H , Honors Introduction to Cultural
Anthropology
Asian American Studies 101, Introduction to Asian American
Studies 3

Black Studies 101, Introduction to Black Studies $\quad 3$
$\overline{\text { Chicano Studies 101, Introduction to Chicano Studies }} 3$
Ethnic Studies 101, Introduction to Ethnic Studies 3
Ethnic Studies 101H, Honors Introduction to Ethnic Studies
Ethnic Studies 102, The Borderlands: Cultural Context and Intercultural Relations
-OR -
3
Ethnic Studies 102H, Honors The Borderlands: Cultural Context and Intercultural Relations
Psychology 100, Introduction to Psychology
Psychology 100 H , Honors Introduction to Psychology
(some sections of interest to Black, Asian-American, and Chicano Studies)
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 $104 \mathrm{H}, 105,125$; Art 103, 104, 106; Dance 105, 112; English 104 or $104 \mathrm{H}, 245,246$; History 101 or $101 \mathrm{H}, 102$ or $102 \mathrm{H}, 105,123,124$ or 124H, 125, 146, 150, 151, 153, 160, 161, 181; Human Development 221; Music 102 or $102 \mathrm{H}, 103$; Sociology 100 or 100 H .

## FASHION DESIGN

## Fashion Design Degree (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.

Major requirements for the associate:

| Course | Units |
| :--- | ---: | ---: |
| Fashion Design Merchandising 100, Introduction to Fashion | 3 |
| Fashion Design Merchandising 103, Fashion Selection | 3 |
| Fashion Design Merchandising 104, Textile Fibers \& Fabrics | 3 |
| Fashion Design Merchandising 105A, Beginning Sewing | 3 |
| Fashion Design Merchandising 109, Flat Pattern Techniques | 3.5 |
| Fashion Design Merchandising 111A, Fashion Sketching | 2 |
| Fashion Design Merchandising 113, Fashion Draping | 3.5 |
| Fashion Design Merchandising 213, Apparel Line Production | 2 |
| Fashion Design Merchandising 214, Manufacturing \& Grading | 2 |
| Select six (6) units from the following elective courses: | 6 |
| Fashion Design Merchandising 052, Knit Sewing (2) |  |
| 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 106A, Advanced Sewing I (1.5) |  |
| 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 216, Computer Pattern Design, |  |
| Grading and Marking (1) |  |

## Fashion Design Certificate (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.

Requirements for the certificate:

| Course | Units |
| :--- | ---: | ---: |
| Fashion Design Merchandising 100, Introduction to Fashion | 3 |
| Fashion Design Merchandising 103, Fashion Selection | 3 |
| Fashion Design Merchandising 104, Textile Fibers \& Fabrics | 3 |
| Fashion Design Merchandising 105A, Beginning Sewing | 3 |
| Fashion Design Merchandising 109, Flat Pattern Techniques | 3.5 |
| Fashion Design Merchandising 111A, Fashion Sketching | 2 |
| Fashion Design Merchandising 113, Fashion Draping | 3.5 |
| Fashion Design Merchandising 213, Apparel Line Production | 2 |
| Fashion Design Merchandising 214, Manufacturing \& Grading | 2 |

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

Fashion Design Merchandising 052, Knit Sewing (2)
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 106A, Advanced Sewing I (1.5)
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 216, Computer Pattern Design, Grading and Marking (1)

Total

## Fashion Merchandising Degree (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.

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 \& Merchandising | 3 |  |
| Fashion Design Merchandising 102, Promotion \& Coordination | 3 |  |
| Fashion Design Merchandising 103, Fashion Selection | 3 |  |
| Fashion Design Merchandising 104, Textile Fibers \& Fabrics | 3 |  |
| Fashion Design Merchandising 125, Display Merchandising | 3 |  |
| Fashion Design Merchandising 299, Cooperative Work | $1-4$ |  |
| Experience Education |  |  |
| Select six (6) units from the following electives: | 6 |  |
| Business 170, Principles of Small Business Management (3) |  |  |
| Fashion Design Merchandising 055, Children's Clothing (2) |  |  |
| Fashion Design Merchandising 105A, Beginning Sewing (3) |  |  |
| Fashion Design Merchandising 107, Custom Tailoring (2) |  |  |
| Fashion Design Merchandising 109, Flat Pattern Techniques (3.5) |  |  |
| Fashion Design Merchandising 111A, Fashion Sketching (2) |  |  |
| Fashion Design Merchandising 113, Fashion Draping (3.5) |  |  |
| Fashion Design Merchandising 214, Manufacturing and |  |  |
| Grading (2) |  | Total |

## Fashion Merchandising Certificate (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.

| Course | Units |
| :--- | ---: | ---: |
| Fashion Design Merchandising 100, Introduction to Fashion | 3 |
| Fashion Design Merchandising 101, Buying \& Merchandising | 3 |
| Fashion Design Merchandising 102, Promotion \& Coordination | 3 |
| Fashion Design Merchandising 103, Fashion Selection | 3 |
| Fashion Design Merchandising 104, Textile Fibers \& Fabrics | 3 |
| Fashion Design Merchandising 125, Display Merchandising | 3 |
| Fashion Design Merchandising 299, Cooperatio Wor | 1 | Fashion Design Merchandising 299, Cooperative Work Experience Education

Select six (6) units from the following electives:
Business 170, Principles of Small Business Management (3)
Fashion Design Merchandising 055, Children's Clothing (2)
Fashion Design Merchandising 105A, Beginning Sewing (3) Fashion Design Merchandising 107, Custom Tailoring (2) Fashion Design Merchandising 109, Flat Pattern Techniques (3.5) Fashion Design Merchandising 111A, Fashion Sketching (2) Fashion Design Merchandising 113, Fashion Draping (3.5)
Fashion Design Merchandising 214, Manufacturing and Grading (2)

Total

## Product Development and Technical Design (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.
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, Textiles, Fiber \& Fabric | 3 |
| Fashion Design Merchandising 105A, Beginning Sewing | 3 |
| Fashion Design Merchandising 109, Flat Pattern Techniques | 3.5 |
| Fashion Design Merchandising 113, Fashion Draping | 3.5 |
| Fashion Design Merchandising 214, Manufacturing \& Grading | 2 |
| Fashion Design Merchandising 216, Computer Pattern Design, | 1 |
| Grading \& Marking |  |
| Fashion Design Merchandising 299, Cooperative Work | $1-4$ |
| Experience Education |  |
| Select six (6) units from the following elective courses: | 6 |
| Fashion Design Merchandising 052, Knit Sewing (2) |  |
| 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 106A, Advanced Sewing I (1.5) |  |
| Fashion Design Merchandising 106B, Advanced Sewing II (1.5) |  |
| Fashion Design Merchandising 107, Custom Tailoring (2) |  |
| Fashion Design Merchandising 111A, Fashion Sketching (2) |  |
| Fashion Design Merchandising 125, Display Merchandising (3) |  |
| Fashion Design Merchandising 213, Apparel Line Production ( 2) |  |

## Product Development and Technical Design Certificate (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.

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, Textiles, Fiber \& Fabric | 3 |
| Fashion Design Merchandising 105A, Beginning Sewing | 3 |
| Fashion Design Merchandising 109, Pattern Design | 3.5 |
| Fashion Design Merchandising 113, Fashion Draping | 3.5 |
| Fashion Design Merchandising 214, Manufacturing \& Grading | 2 |
| Fashion Design Merchandising 216, Computer Pattern Design, | 1 |
| Grading \& Marking |  |
| Fashion Design Merchandising 299, Cooperative Work | $1-4$ |
| Experience Education |  |
| Select six (6) units from the following elective courses: | 6 |
| Fashion Design Merchandising 052, Knit Sewing (2) |  |
| 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 106A, Advanced Sewing I (1.5) |  |
| Fashion Design Merchandising 106B, Advanced Sewing II (1.5) |  |
| Fashion Design Merchandising 107, Custom Tailoring (2) |  |
| Fashion Design Merchandising 111A, Fashion Sketching (2) |  |
| Fashion Design Merchandising 125, Display Merchandising (3) |  |
| Fashion Design Merchandising 213, Apparel Line Production ( 2) |  |

## Dressmaking and Alterations Option Certificate (sac.fdcda.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.

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


## FIRE TECHNOLOGY

## Administrative Fire Services Chief Officer Degree (sac.ftco.as)

The Administrative Fire Services, Chief Officer Degree is designed to prepare students for careers as chief officers. This program meets the requirements of the California Fire Chiefs' Association and the Chief Officer Certification track of the California State Fire Marshal. Transcript evaluation may allow up to a maximum of 18 units of credit for previous fire service education. "If Fire Technology 121 is completed as an elective with a "C" or better grade and FTC 121L is completed with a "pass", it may be used to satisfy the requirements for section F of the general education requirements for graduation."

Student must complete the general education requirements as outlined in the appropriate catalog
and
Major requirements for the associate degree:

| Course | Units |
| :--- | ---: |
| Fire Academy 262A, Fire Management 2A, <br> Leadership \& Effective Communications | 1 |
| Fire Academy 262B, Fire Management 2B, <br> Financial Management | 1 |
| Fire Academy 262C, Fire Management 2C, <br> Personnel \& Labor Relations | 1 |
| Fire Academy 262D, Fire Management 2D, <br> Master Planning | 1 |
| Fire Academy 262E, Fire Management 2E, <br> Contemporary Issues \& Concepts | 1 |
| Fire Academy 272A, Fire Command 2A, <br> Command Tactics at Major Fires | 1 |
| Fire Academy 272B, Fire Command 2B, |  |
| Management of Major Hazmat Incidents |  |

Fire Academy 272D, Fire Command 2D, 1

Planning for Large Scale Disasters
Fire Academy 273B, Fire Command 2E, 1 Wildland Firefighting Tactics
In addition, select a minimum of 9 units from the following list
(classes in this area may be substituted with similar classes):
Fire Technology 101, Fire Protection Organization (3)
Fire Technology 102, Fire Behavior \& 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 \& 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

## Fire Administration Option Degree (sac.ftfa.as)

The 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 FTC 121L is completed with a "pass", it may be used to satisfy the requirements of section F of the general education requirements for graduation."
Student must complete the general education requirements as outlined in theappropriate 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 Academy 231A, Fire Prevention Officer IA | 1 |  |
| Fire Academy 231B, Fire Prevention Officer IB | 1 |  |
| Fire Academy 241A, Fire Instructor IA | 1 |  |
| Fire Academy 241B, Fire Instructor IB | 1 |  |
| Fire Academy 251A, Fire Investigation 1A | 1 |  |
| Fire Academy 261, Fire Management 1 | 1 |  |
| Fire Academy 271A, Fire Command IA | 1 |  |
| Fire Academy 271B, Fire Command IB | 3 |  |
| Fire Technology 101, Fire Protection Organization |  |  |
| 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 102, Fire Behavior \& 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 \& 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 Academty (12) |  |  |
|  | Total | 21.8 |

## Administrative Fire Services Chief Officer (sac.ftco.ca)

The Administrative Fire Services, Chief Officer Certificate of Achievement 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.
! ! !
Major requirements for the certificate:
Course
Units
Fire Academy 262A, Fire Management 2A, 1
Leadership \& Effective Communications
$\overline{\text { Fire Academy 262B, Fire Management 2B, }} 1$
Financial Management
$\overline{\text { Fire Academy 262C, Fire Management 2C, }} 1$
Personnel \& Labor Relations
Fire Academy 262D, Fire Management 2D, 1
Master Planning
Fire Academy 262E, Fire Management 2E, 1
Contemporary Issues \& Concepts
Fire Academy 272A, Fire Command 2A, 1 Command Tactics at Major Fires
Fire Academy 272B, Fire Command 2B,
Management of Major Hazmat Incidents
$\overline{\text { Fire Academy 272C, Fire Command 2C, }} 1$
High Rise Fire Tactics
Fire Academy 272D, Fire Command 2D
Planning for Large Scale Disasters
Fire Academy 273B, Fire Command 2E,1

Wildland Firefighting Tactics
In addition, select a minimum of 9 units from the following list (classes in this area may be substituted with similar classes):
Fire Technology 101, Fire Protection Organization (3)
Fire Technology 102, Fire Behavior \& 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 \& 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

## Fire Administration Option (sac.ftfa.ca)

The 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 FTC 121L is completed with a "pass", it may be used to satisfy the requirements of section $F$ of the general education requirements for graduation."

Student must complete the general education requirements as outlined in theappropriate catalog
and

| Course | Units |
| :--- | ---: |
| Fire Academy 062, Basic Incident Command Systems | 0.3 |
| Fire Academy 062B, ICS-300 Intermediate ICS | 0.5 |
| Fire Academy 231A, Fire Prevention Officer IA | 1 |
| Fire Academy 231B, Fire Prevention Officer IB | 1 |
| Fire Academy 241A, Fire Instructor IA | 1 |
| Fire Academy 241B, Fire Instructor IB | 1 |
| Fire Academy 251A, Fire Investigation 1A | 1 |
| Fire Academy 251B, Fire Investigation 1B | 1 |
| Fire Academy 261, Fire Management 1 | 1 |
| Fire Academy 271A, Fire Command IA | 1 |
| Fire Academy 271B, Fire Command IB | 1 |
| 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):
Fire Technology 102, Fire Behavior \& 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 \& 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

## Prevention Officer Degree (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; and to give architects and engineers and persons from other disciplines an opportunity to expand their knowledge of building and 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 meet section F of the general education requirements unless Fire Technology 121 is completed as an elective with a "C" or better grade.

Major requirements for the associate degree:

| Course | Units |  |
| :--- | ---: | ---: |
| Fire Academy 231A, Fire Prevention IA | 1 |  |
| Fire Academy 231B, Fire Prevention IB | 1 |  |
| Fire Academy 231C, Fire Prevention IC | 1 |  |
| Fire Academy 232A, Fire Prevention Officer 2A | 1 |  |
| Fire Academy 232B, Fire Prevention Officer 2B | 1 |  |
| Fire Technology 101, Fire Protection Organization | 3 |  |
| Fire Technology 102, Fire Behavior \& Combustion | 3 |  |
| Fire Technology 104, Fire Prevention Technology | 3 |  |
| Fire Technology 105, Building Construction for Fire Protection | 3 |  |
| Fire Technology 106, Fire Protection Equipment \& Systems | 3 |  |
|  | Total | 20 |

## Prevention Officer Certificate (sac.ftpo.cert)

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 and engineers and persons from other disciplines an opportunity to expand their knowledge of building and 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.

Major requirements for the certificate:

| Course | Units |  |  |  |
| :--- | ---: | ---: | :---: | :---: |
| Fire Academy 231A, Fire Prevention IA | 1 |  |  |  |
| Fire Academy 231B, Fire Prevention IB | 1 |  |  |  |
| Fire Technology 101, Fire Protection Organization | 3 |  |  |  |
| Fire Technology 104, Fire Prevention Technology | 3 |  |  |  |
| Fire Technology 105, Building Construction for Fire Protection | 3 |  |  |  |
| Fire Technology 106, Fire Protection Equipment \& Systems | 3 |  |  |  |
| Total |  |  |  | 14 |

## Public Fire Service Option (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 the Basic Fire Academy 060 are nontransferable. Prerequisites to the Basic Fire Academy include: All Fire Technology core courses, meeting NFPA 1582 medical standards, passing the physical ability test and skills 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.
Major requirements for the associate degree:

| Course | Units |  |
| :--- | ---: | ---: |
| Fire Academy 007, Orientation \& 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 \& 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 \& Systems | 3 |  |
| Fire Technology 121, Physical Fitness for Public Safety Personnel | 3 |  |
| Fire Technology 121L, Physical Fitness for Public Safety | 0.3 |  |
| Personnel - Performance and Assessment | Total | 35.9 |

## Public Fire Service Option (sac.ffpfs.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 Basic 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

Major requirements for the certificate:

| Course | Units |
| :--- | ---: | ---: |
| Fire Academy 007, Orientation \& 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 \& 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 \& Systems | 3 |
| Fire Technology 121, Physical Fitness for Public Safety Personnel | 3 |
| Fire Technology 121L, Physical Fitness for Public Safety | 0.3 |

## Training Officer Option Degree (sac.ftto.as)

The training officer program is designed to prepare students for a career in training. This program meets the requirements of the California State Board of Fire Services and college or university preparation. National and state fire academy courses may be substituted for similar courses. "If Fire Technology 121 is completed as an elective with a "C" or better grade it may be used to satisfy the requirements of section F of the general education requirements for graduation.

Major requirements for the associate degree:

| Course | Units |  |  |
| :--- | ---: | :---: | :---: |
| Fire Academy 062, Basic Incident Command Systems | 0.3 |  |  |
| Fire Academy 241A, Fire Instructor IA | 1 |  |  |
| Fire Academy 241B, Fire Instructor IB | 1 |  |  |
| Fire Academy 242A, Fire Instructor 2A | 1 |  |  |
| Fire Academy 242B, Fire Instructor 2B | 1 |  |  |
| Fire Academy 242C, Fire Instructor 2C | 1 |  |  |
| Fire Academy 261, Fire Management I | 3 |  |  |
| Fire Technology 101, Fire Protection Organization | 3 |  |  |
| Fire Technology 102, Fire Behavior \& 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 \& Systems | 3 |  |  |
| Total |  |  | 24.3 |

## Training Officer Option Certificate (sac.ftto.cert)

The training officer certificate is designed to prepare students for a career in training. This certificate program meets the requirements of the California State Board of Fire Services and college or university preparation. National and state fire academy courses may be substituted for similar courses.

Major requirements for the certificate:

| Course | Units |  |
| :--- | ---: | ---: |
| Fire Academy 062, Basic Incident Command Systems | 0.3 |  |
| Fire Academy 241A, Fire Instructor IA | 1 |  |
| Fire Academy 241B, Fire Instructor IB | 1 |  |
| Fire Academy 242A, Fire Instructor 2A | 1 |  |
| Fire Academy 242B, Fire Instructor 2B | 1 |  |
| Fire Academy 261, Fire Management I | 3 |  |
| Fire Technology 101, Fire Protection Organization | 3 |  |
| Fire Technology 102, Fire Behavior \& Combustion | Subtotal | 11.3 |
| (3) |  |  |
| In addition, select a minimum of 3 units from the following list | 3 |  |
| (classes in this area may be substituted): |  |  |
| 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 \& Systems (3) |  |  |
| Fire Technology 121, Physical Fitness for Public Safety Personnel (3) |  |  |
| Fire Academy 060, Basic Fire Academy (12) |  |  |

## FOREIGN LANGUAGES

(See Modern Languages)

## GEOGRAPHY

## Option 1 <br> Geography Degree (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.

Major requirements for the associate in arts degree:

| Course | Units |  |
| :--- | ---: | ---: |
| Geography 100, World Regional Geography | 3 |  |
| Geography 100H, Honors World Regerional Geography | 3 |  |
| Geography 101, Physical Geography |  |  |
| Geography 102, Cultural Geography | 3 |  |
| Geography 102H, Honors Cultural Geography |  |  |
| 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 or $100 \mathrm{H}, 103$;
Economics 120, 121;
History 101 or $101 \mathrm{H}, 102$ or $102 \mathrm{H}, 105,133,150,151,153$;
Interdisciplinary Studies 117H;
Political Science 201, 220.

## Category B

Anthropology 101;
Astronomy 109, 150;
Biology 109 or 109H, 127, 128, 129, 130, 131, 132, 133, 134, 135, 169, 170, 179, 200, 212, 214, 259;
Environmental Studies 140, 170, 200, 259;
Geology 101, 101L, 111, 112, 140, 150 or $150 \mathrm{H}, 161,162,163,164$, $165,166,167,168,169,170,171,172,173,174,176,201$.
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 Social Sciences 219/219H/Mathematics 219/219H.

Total

## Option 2 <br> Associate in Arts in Geography for Transfer (sac.geog.aat)

This degree is pending approval from the California Community College Chancellor's Office. Please consult a SAC counselor and the SAC college website for the latest information.

## GEOLOGY

## Option 1 <br> Geology Degree (sac.geol.aa)

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.
Units used to satisfy the Santa Ana College general education requirements may also be used to satisfy the Geology Degree requirements.

Major requirements for the associate in arts or science degree:

| Course | Units |  |
| :--- | ---: | ---: |
| Geology 101, Introduction to Geology | 3 |  |
| Geology 101L, Introduction to Geology Laboratory | 1 |  |
| Geology/Environmental Studies 140, Environmental Geology | 3 |  |
| -OR一 | 3 |  |
| Geology/Earth Science 150, Introduction to Oceanography/ |  |  |
| Geology/Earth Science 150H, Honors Introduction to |  |  |
| Oceanography | 4 |  |
| Geology 201, Introduction to Historical Geology |  |  |
| Chemistry 219, General Chemistry/ |  |  |
| Chemistry 219H, Honors General Chemistry | 5 |  |
|  |  | 8 |

Electives: Biology 211, 212, 214; Chemistry 229; Mathematics 180, $180 \mathrm{H}, 185$; and any course numbered 100 or higher in Earth Science, Geology, or Physics, except Earth Science 110 and 115 or Physics 109.

## Option 2 <br> Associate in Science in Geology for Transfer (sac.geol.ast)

This degree is pending approval from the California Community College Chancellor's Office. Please consult a SAC counselor and the SAC college website for the latest information.

## HISTORY

## History Degree (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.

Major requirements for the associate in arts degree:

| Course Unis |  |  |
| :---: | :---: | :---: |
|  |  |  |
| History 101H, Honors World Civilizations to the 16th Century |  |  |
| History 102, World Civilizations Since the 16th Century |  |  |
| History 102H, Honors World Civilizations Since the 16th Century |  |  |
| History 120, United States to 1865 |  |  |
|  |  |  |
| History 121, United States Since 1865 |  |  |
| History 121H, Honors United States Since 1865 |  |  |
| Required Electives: Choose 3 electives from the following group. <br> Must include at least one History class. <br> Economics 120; Geography 100 or 100 H ; History 123, <br> 124 or 124H, 127, 128H, 133, 146, 150-151, 163; Philosopy 112, <br> 118; Political Science 101 or 101H, 200, 201, 220. |  |  |
|  |  |  |

## HOME ECONOMICS

(See Fashion Design Merchandising, or Nutrition $\mathcal{E}$ Food)

## HOSPITAL PHARMACY TECHNOLOGY <br> (See Pharmacy Technology)

## HUMAN DEVELOPMENT

## Early Childhood Options Degree And Certificate

The early childhood program emphasizes an infant, toddler, or preschool child option; offers students knowledge about the development of the young child, prebirth through early school years, and opportunities to learn ways to meet the emotional, physical, social, and education needs of the child. The program prepares students for directly working with children as teachers in child care or other preschool environments, and seeks to support and enrich them in their role as parents.

Students may move into a curriculum in a four-year institution leading to a baccalaureate degree in child development and more advanced careers such as preschool director, elementary school teacher, or other human services fields relating to children.
Eighteen of the 33.5 units in the required courses listed below are transferrable into the Early Childhood Development Option Degree in the Child and Adolescent Development major at CSU Fullerton. Additional transferable units beyond 18 units will be accepted as elective units toward the bachelor's degree. Students majoring in Human Development and are electing a different major at CSU Fullerton or planning to attend a different university should see a SAC or SCC counselor for early advisement.
Human Development 107
Human Development 108 A
Human Development 110
Human Development 111A or Human Development 116A
Human Development 111B or Human Development 116B
Human Development 112
Human Development 200
Human Development 205
Human Development 221
Human Development 231
Human Development 298A or Human Development 298B
Major requirements for the associate degree and certificate:

## Infant-Toddler Option Degree (sac.hudit.aa) and Certificate (sac.hudit.ca)

| Course | Units |
| :--- | ---: | ---: |
| Human Development 107, Child Growth \& Development (DS1) | 3 |
| Human Development 108A, Observation \& Assessment for <br> Early Learning \& Development | 3 |
| Human Development 110, Child, Family \& Community (DS2) | 3 |
| Human Development 112, Health, Safety \& Nutrition for Children 3 |  |
| Human Development 116A, Infant/Toddler Growth \& Development <br> (DS4) |  |
| Human Development 116B, Programming for Infants and Toddlers <br> (DS4) |  |
| Human Development 200, Computer Literacy for <br> Early Childhood Educators | 3 |
| Human Development 205, Exceptionality \& Special Needs in <br> Human Development | 3 |
| Human Development 221, Teaching in a Diverse Society | 3 |
| Human Development 298B, Practicum in Infant/Toddler | 3.5 |
| Programs |  |

## Bilingual (English/Spanish) Preschool Associate Teacher (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 assistant/associate teacher in a licensed preschool serving Spanish speaking families and children. The classes in this certificate are presented in English and Spanish, with the requirement of concurrent enrollment in ESL or EMLS classes, encouraging mastery of both languages. Completion of the certificate with a grade of C or better, will enable the student to be eligible for the California Associate Teacher Permit required to be employed in publically funded programs as well as meet licensing requirements to be employed in private and faith-based programs.

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

The classes in this certificate are presented in English and Spanish, with the requirement of concurrent enrollmentin ESL or EMLS classes, encouraging mastery of both languages.

## Preschool Child Option Degree (sac.hudpc.aa) and Certificate (sac.hudpc.ca)

Course ..... Units
Human Development 107, Child Growth \& Development (DS1)
3
Human Development 108A, Observation \& Assessment forEarly Learning \& Development
Human Development 110, Child, Family \& Community (DS2) ..... 3
Human Development 111A, Principles \& Practices of Teaching
Young Children (DS3)
Human Development 111B, Introduction to Curriculum for ..... 3
Young Children (DS3)
Human Development 112, Health, Safety \& Nutrition for Children3
Human Development 200, Computer Literacy for ..... 3
Early Childhood Educators
Human Development 205, Exceptionality \& Special Needs in ..... 3
Human Development
Human Development 221, Teaching in a Diverse Society ..... 3
Human Development 231, Developing Language and Literacy inYoung Children
Human Development 298A, Practicum in Early Childhood ..... 3.5
Programs
Total ..... 33.5

## School Age Options Degree and Certificate

The school age option is designed to prepare instructional and classroom aides 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. Students may develop skills, enrich skills to work more effectively in current roles, or may move into a curriculum in a four-year institution leading to a baccalaureate in child development, liberal studies, education, chicano studies, or other majors that precede the work toward a California teaching credential.
CSU Fullerton will accept a maximum of 9 transferable units of lower division coursework into their Elementary and Special Education track in the Child \& Adolescent Development major. Recommended courses are listed below. Additional transferable units beyond 9 will be accepted as elective units toward the bachelors degree. Students majoring in Human Development and planning to become elementary school teachers should see a SAC or SCC counselor for early advisement.

## Human Development 107

Human Development 110
Human Development 205
Major requirements for the associate degree and certificate:

## School Age Option Degree (sac.hudsa.aa) and Certificate (sac.hudsa.ca)

Course ..... Units
Education 100, Introduction to Education ..... 3
Human Development 107, Child Growth \& Development ..... 3
Human Development 110, Child, Family \& Community ..... 3
Human Development 113, Tutoring Reading in Elementary Schools1
Human Development 114, Careers in Teaching ..... 1
Human Development 120, Development of School Age Child (DS5)3
Human Development 121, School Age Child Care Activities (DS5) 3
Human Development 200, Computer Literacy for ..... 3
Early Childhood Educators
Human Development 205, Exceptionality \& Special Needs in ..... 3
Human Development
Human Development 220, The Child as Victim ..... 3
Human Development 221, Teaching in a Diverse Society ..... 3
Human Development 299, Cooperative Work Experience ..... 1-4
Education

Note: This 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.

## Industrial Technology <br> (See Engineering) <br> Instructional Aide <br> (See Human Development-School Age Options)

## Instructional Aide-Early Childhood

(See Human Development-Early Childhood: Infant-Toddler, and Preschool Child)

## INTERNATIONAL BUSINESS

## International Business Degree and Certificate

The associate degree and certificate in international business is designed to provide students and business practitioners, including those already involved in International Business, with practical "hands' on" exposure to the world of international business. Classes focus on businesses that import and export. Students learn the fundamentals of international business, culture, marketing, finance, law and logistics. Different countries and cultures are explored. Specialized topic areas (for example, marketing, financing, law and logistics) are a sequence of short classes that should be taken in order. The program prepares students to take the NASBITE Certified Global Business (CGBP) Credential Exam.

## International Business Degree (sac.ib.aa)

Required Core Courses: Units
Business 106, Culture \& International Business 3
Kiss, Bow or Shake Hands
Business 125, Introduction to International Business
Select ONE course from the following:
Business 100, Fundamentals of Business
-OR -

Entrepreneurship 100, Introduction to Innovation and Entrepreneurship
Select ONE course from the following:
Business 222, Business Writing
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 \& Planning $\quad 1$
Business 143, Packaging, Pricing \& Promoting Products/ 1
Services for Export
Business 145, Channels of Distribution in International Markets 1

## Finance Sequence:

Business 163, International Methods of Payment \& Letters
$\overline{\text { Business 164, Alternative Financing Techniques for } \quad 1}$
International Trade
$\overline{\text { Business 165, International Trade Finance \& Insurance }} 1$
Business 166, Financing an Import/Export Business 1
Law Sequence:
Business 147, International Commercial Agreements \& 1
Distribution Law
$\overline{\text { Business 148, International Intellectual Property Law } 1}$
Business 149, The Law of Global Commerce 1

| Logistics Sequence: |  |
| :---: | :---: |
| Business 110, Export Pricing, Quotations \& Terms of Trade | 1 |
| Business 111, International Business Documentation-Beginn |  |
| Business 113, International Transportation | 1 |
| Business 114, International Documentation \& Supply Chain Management | 1 |
| Import Sequence: |  |
| Business 180, Finding \& Evaluating Products for Import |  |
| Business 182, Classifying Imports and Clearing U.S. Customs |  |
| Select ONE course from the following: <br> Accounting 101, Financial Accounting (4) <br> Business 120, Principles of Management (3) <br> Management 120, Principles of Management (3) <br> Marketing 113, Principles of Marketing (3) |  |
|  |  |
|  |  |
|  |  |
|  |  |
| Total | 32-33 |
| International Business Certificate (sac.ib.ca) |  |
| Core Required Course | Units |
| Business 106, Culture \& International Business Kiss, Bow or Shake Hands |  |
| Business 125, Introduction to International Business |  |
| Sequence Requirements <br> (All sequence courses must be completed to earn this certificate.) |  |
| Marketing Sequence |  |
| Business 141, The Globalization of Marketing | 1 |
| Business 142, International Market Research \& Planning | 1 |
| Business 143, Packaging, Pricing \& Promoting Products/ Services for Export | 1 |
| Business 145, Channels of Distribution in International Market |  |
| Financial Sequence |  |
| Business 163, International Methods of Payment \& Letters of Credit | 1 |
| Business 164, Alternative Financing Techniques for International Trade | 1 |
| Business 165, International Trade Finance \& Insurance | 1 |
| Business 166, Financing an Import/Export Business | 1 |
| Law Sequence |  |
| Business 147, International Commercial Agreements \& 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 \& Terms of Trade | 1 |
| Business 111, International Business Documentation-Beginnin |  |
| Business 113, International Transportation | 1 |
| Business 114, International Documentation \& Supply Chain Management | 1 |
| Total | 21 |
| Intersegmental General Education Transfer Curriculum (IGETC) Certificate Of Achievement (sac.uc.ca) |  |

(Complete all Intersegmental General Education Transfer Curriculum Requirements (Plan C) as outlined on page 40.) (Minimum 34 units)

## KINESIOLOGY

## Option 1 <br> Kinesiology Degree (sac.kin.aa)

The program at Santa Ana College is designed to acquaint the student with all aspects of health and wellness. In addition to exercise, the student is introduced to classes that support an active mind and body. Curriculum content may include nutrition, health awareness, sports medicine, kinesiology and physiology as they relate to exercise.
The following classes can lead to obtaining a degree in the areas of exercise science, sports medicine-athletic trainer, physical therapy, kinesiology, coaching or sport/fitness related vocations.

## TRANSFER PLAN

Courses required to complete an associate degree at Santa Ana College in Kinesiology may not fulfill courses required by four-year universities to complete a baccalaureate degree. The Kinesiology Department at Santa Ana College recommends that students interested in transferring to a four-year institution consult with a counselor prior to beginning their courses of study.

| Required Core Courses |  | 20.5 Units |
| :--- | ---: | ---: |
| Performance Courses | 5 Units |  |
| Elective Courses | 6 Units |  |
|  | Total | 31.5 Units |

Required Core Courses

Units

Kinesiology Health Education 101, Healthful Living 3
Kinesiology Health Education 104, Nutrition \& Fitness
2
Kinesiology Health Education 105, First Aid \& Personal Safety 1.5
Kinesiology Health Education 107, Cardiopulmonary
Resuscitation 2
$\overline{\text { Kinesiology Sports Medicine 101, Introduction to Sports Medicine } 3}$
Kinesiology Sports Medicine 150, Athletic Training Internship 2
Kinesiology Professional 101, Introduction to Kinesiology 3
Biology 239, General Human Anatomy (4)
Biology 249, Human Physiology (4)
Performance Courses (5 Units) 5
Must include at least 1 (one) unit from each of the following areas, for a total of 5 (five) units: Activities, Aerobic Fitness, Aquatics, and Fitness. For a complete description of Kinesiology performance courses refer to Santa Ana College Catalog.

Elective Courses ( 6 Unit Minimum)
Kinesiology Professional 125, Sport Psychology (3)
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)

## Option 2 <br> Associate of Arts in Kinesiology for Transfer (sac.kin.aat)

This degree is pending approval from the California Community College Chancellor's Office. Please consult a SAC counselor and the SAC college website for the latest information.

## Journalism

(See Communications and Media Studies)

## Kinesiology Coaching Certificate (sac.knc.ca)

The certificate curriculum is coaching is designed to prepare the student for entry into the field of coaching.

| Core Courses | Uni |
| :---: | :---: |
| iology Hea |  |
| Kinesiology Health Education 107, Cardiopulmonary Resuscitation |  |
| Kinesiology Professional 101, Introduction to Kinesiolo |  |
| Kinesiology Sports Medicine 101*, Introduction to Sports Medicine |  |
| Kinesiology Sports Medicine 150*, Athletic Training Internship |  |
| Choose 3 units from the following classes |  |
| Kinesiology Professional 125, Sport Psyc |  |
| Kinesiology Professional 150, Sport and Society (3) |  |
| Kinesiology Professional 170, Sport Ethics (3) |  |
| Choose 2 units |  |
| Kinesiology Professional 203, Physiology of Cardiovascular Exercise (2) |  |
| Kinesiology Professional 207, Physiology of ResistanceTraining (2) |  |
| Choose 2 movement classes from the following: |  |
| Kinesiology |  |
| Kinesiology Aquatics 204, Lifesaving (1.5) |  |
| Kinesiology Adopted Activities 211, Adapt |  |
| Kinesiology Activities 140, Karate (1) |  |
| Kinesiology Activities 155, Self-Defens |  |
| Kinesiology Activities 185, Aikido (1) |  |
| Kinesiology Fitness 101A, Personal Fitness Evaluation I (1) |  |
| Kinesiology Fitness 110A, Beginning Circuit Training |  |
| Kinesiology Fitness 110B, Intermediate Circuit Training (1) |  |
| Kinesiology Fitness 110C, 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 126A, Beginning Upper Body Power Development (1.5 |  |
| Kinesiology Fitness 126B, Intermediate Upper Body Power Development (1.5) |  |
| Kinesiology Fitness 126C, Advanced Upper Body Power Development (1.5) |  |
| Kinesiology Fitness 127A, Beginning Lower Body Power Development (1.5) |  |
| Kinesiology Fitness 127B, Intermediate Lower Body Power Development (1.5) |  |
| Kinesiology Fitness 127C, Advanced Lower Body Power Development (1.5) |  |
| Kinesiology Fitness 147A, Beginning Weight Training (1) |  |
| Kinesiology Fitness 147B, Intermediate Weight Training (1) |  |
| Kinesiology Activities 123, Personal Fitness Training (1) |  |
| Kinesiology Activities 150, Hatha Yoga (1) |  |
| Kinesiology Activities 170, Yoga (1) |  |
| Kinesiology Activities 235, Speed and Agility (1) |  |
| Kinesiology Aerobic Fitness 140, Walking/Jogging for Fitness (1) |  |
| Kinesiology Aerobic Fitness 143, Extreme Fitness (1) |  |
| Kinesiology Aerobic Fitness 144, Cross Training (1) |  |
| Kinesiology Aerobic Fitness 146, Stability Ball Training for Fitness (1) |  |
| Kinesiology Aerobic Fitness 150, Stretch, Flex and Tone (1) |  |
| Kinesiology Aerobic Fitness 156, Cardio Boxing (1) |  |
| Kinesiology Aerobic Fitness 157, Cardio Pump (1) |  |
| Kinesiology Fitness 101B, Personal Fitness Evaluation II (1) |  |
|  |  |

Total 18.5-19.5
*Kinesiology Sports Medicine 101 \& 150 must be taken together.

## Kinesiology Sports Medicine Certificate (sac.knm.cert)

A series of classes that will help give students a more complete understanding in all aspects in the field of sports medicine.

| Course | Units |
| :--- | ---: | ---: |
| Kinesiology Health Education 101, Healthful Living | 3 |
| Kinesiology Health Education 104, Nutrition \& Fitness | 2 |
| Kinesiology Health Education 105, First Aid \& Personal Safety | 1.5 |
| Kinesiology Health Education 107, Cardiopulmonary Resuscitation |  |
| 2 |  |
| Kinesiology Sports Medicine 101*, Introduction to Sports Medicine |  |
| 3 |  |

    3
                                    -AND -
    Kinesiology Sports Medicine 150*, Athletic Training Internship 2 Kinesiology Professional 125, Sports Psychology 3
Total $\quad 16.5$
*Kinesiology Sports Medicine $101 \& 150$ must be taken together.

## LAW

Prelaw students at Rancho Santiago Community College District colleges should complete the requirements for the political science, liberal arts, business administration transfer and to meet the lower division requirements of the institution to which they plan to transfer.

No specific college major is required for admission to a school of law. A usual requirement for admission is that the student must have been granted a bachelor's degree from an accredited college or university. Some law schools, however, have alternate plans. The student should consult the catalog of the school of law to which he expects to apply for admission.

The prelegal students should follow a plan of study which will assure an adequately broad cultural foundation. It is recommended that they prepare to read understandingly, accurately and rapidly and to express thoughts orally and in writing clearly, completely and concisely. Students should acquire competence in the fields of English, speech, American history, economics, elementary accounting, political science, psychology, philosophy, sociology and at least one foreign language. They should know something of mathematics and the natural sciences.

## LIBERAL ARTS DEGREE

This is a diversified degree designed for students desiring a broad knowledge of liberal arts and sciences plus additional coursework in an "Area of Emphasis". The degree allows students to develop an appreciation and understanding of the beauty and values that have shaped and enriched our culture. The program of study also enables students to develop intellectual maturity, and a deeper understanding of themselves and the American heritage.

This program provides excellent preparation for a variety of personal and professional goals. Please consult a counselor for educational planning and information regarding specific goals.

## I. Requirements:

1. Complete general education Plan A (associate degree only, nontransfer), B (CSU-GE Breadth, CSU transfer), or C (IGETC, UC or CSU transfer) as related to your educational goal.
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 chosen "Area of Emphasis" may also be applied toward general education areas on Plans 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 as outlined on page 37.

## II. Areas of Emphasis:

## 1. American Studies (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.

Anthropology 100 or $100 \mathrm{H}, 104$ or 104H, 125; Art 103, 104, 108; Asian American Studies 101; Biology 200; Black Studies 101; Chicano Studies 101; Communication Studies 103 or 103H, 206 or 206H; Communications and Media Studies 111, 121; Computer Science 100; Counseling 100, 116, 128; Criminal Justice 101, 107; Dance 100 or $100 H$; Education 100; English 104 or 104H, 241, 242, 245, 246; Environmental Studies 200; Ethnic Studies 101 or $101 \mathrm{H}, 102$ or 102 H ; History 118, 120 or $120 \mathrm{H}, 121$ or $121 \mathrm{H}, 122$, 123, 124 or $124 \mathrm{H}, 125,127,128 \mathrm{H}, 133,146$; Human Development 110, 221; Kinesiology Health Education 101, 102, 120; Kinesiology Professional 170; Music 103, 104; Nutrition and Food 118; Paralegal 107; Political Science 101 or 101H, 200 or 200H, 235; Psychology 170; Sign Language 110, 111, 112, 116; Science 200; Sociology 112, 140 or 140H; Television/Video Communications 101, 103, 104, 105 or 105H; Theatre Arts 100; Women's Studies 101, 102

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 \& Communications (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.

## Arts

Art 100 or $100 \mathrm{H}, 101,102,103,104,105,106,108,110$; Communications and Media Studies 103; Dance 100 or 100H, 102,105; English 233A, 233B, 233C, 233D; Interdisciplinary Studies 121; Music 101 or $101 \mathrm{H}, 102$ or $102 \mathrm{H}, 103,104,110,111,211$; Photography 150; Television/Video Communications 101, 103, 104, 105 or 105 H ; Theatre Arts 100, 105

## Humanities

Anthropology 104 or 104H; Chinese 101, 102; Communications and Media Studies 103, 110, 111; English 102 or 102H, 104 or 104H, 206, 220, 231, 232, 233A, 233B, 233C, 233D, 241, 242, 243, 245, 246, 270, 271, 272, 278; French 101, 102, 201 or 201H, 202 or 202 H ; History 101 or $101 \mathrm{H}, 102$ or $102 \mathrm{H}, 150,151,153,163$; Interdisciplinary Studies 121, 200; Japanese 101, 102; Kinesiology, Professional 170; Philosophy 106 or 106H, 108, 112, 118; Sign Language 110, 111, 112, 116; Spanish 101 or 101H, 102 or $102 \mathrm{H}, 195 \mathrm{~A}, 195 \mathrm{~B}, 201$ or $201 \mathrm{H}, 202$ or 202 H ; Vietnamese 101, 102

## Communications

Communication Studies 101 or 101H, 102, 103 or 103H, 140, 145, 152; Counseling 144; English 101 or 101H, 102 or 102H, 103 or 103H, English for Multilingual Students 112; Philosophy 110 or 110H, 111, 144; Reading 102, 150; Social Science 219 or 219H

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 \& Technology (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.

## Business

Accounting 101, 102; Business 100, 101, 106, 120, 121, 125, 140 , 150, 222; Economics 120, 121; Management 122, 135; Marketing 113; Mathematics 140, 145, 150, 180, 219 or 219H; Paralegal 131, 133, 136, 138, 140; Social Science 219 or 219 H

## Technology

Business Applications 150, 179; Computer Science 100, 105, 121, 136, 163, 167; Engineering 112, 148, 149

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.

## 4. Kinesiology and Wellness (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.

## a. Kinesiology and Movement (minimum 3 units)

Dance 100, 100H, 102, 203, 105; Kinesiology, Health Education 101, 102, 104, 105, 107; Kinesiology, Professional 101, 125, 140, 150, 155, 160, 165, 170, 175, 200; Kinesiology, Sports Medicine 101, 150

## b. Scientific and Nutrition Foundation (minimum 3 units)

Anthropology 101, 101L; Biology 109, 109H, 109L, 115, 139, 149, 177, 200, 211, 212, 214, 217, 229, 239, 249, 259; Chemistry 109, 115, 119, 209, 210, 219, 219H, 229; Environmental Studies 200; Interdisciplinary Studies 155; Nutrition \& Food 065, 115, 116, 118; Physics 109, 210, 211, 217, 227, 237, 279, 289; Science 200
c. Behavioral Development, Communication, and Diversity (minimum 3 units)

Asian American Studies 101; Black Studies 101; Chicano Studies 101; Communication Studies 101, 101H, 102, 103, 103H, 140, 145, 206, 206H; Counseling 100, 107, 120, 124, 116, 150, 155; Ethnic Studies 101; Human Development 107; Psychology 100, 100H, 140, 157, 170, 200, 230, 240, 250; Sociology 100, 100H, 112, 140, 140H, 240; Women's Studies 101, 102
d. Physical Activity ( 6 units selected from at least three different areas)

Dance 009, 022, 102, 103, 106A, 106B, 107, 108A, 108B, 109A, 109B, 109C, 110, 111, 112, 113A, 113B, 117, 118, 119A, 119B, 122, 123, 124, 130, 132, 140, 201A, 201B, 202A, 202B, 204A, 204B, 205, 206A, 206B, 209, 210 ,213, 214, 218, 219A, 219B, 220, 221, $230,232,240 \mathrm{~A}, 240 \mathrm{~B}, 250 \mathrm{~A}, 250 \mathrm{~B}, 251,260,261,262,263,270$, 296, 297, 298; Kinesiology, Activities 107, 107A, 123, 140, 150, 155, 160, 169, 170, 200, 211, 220A, 220B, 220C, 226, 235, 236, 260, 260A, 260B, 262, 265, 265A, 265B, 290, 292; Kinesiology, Adapted Activities 201, 202, 202A, 202B, 205, 208, 208A, 208B, 211, 211A, 211B; Kinesiology, Aerobic Fitness 140, 143, 144, 146, 146A, 146B. 150, 156, 156A, 156B, 157; Kinesiology, Aquatics 201, 204, 206; Kinesiology, Fitness 100, 101A, 101B, 101C, 102, 109A, 109B, 109C, 110A, 110B, 110C, 115A, 115B, 115C, 126A, 126B, 126C, 127A, 127B, 127C, 147A, 147B; Kinesiology, Intercollegiate Athletics 103, 124, 125, 128, 133, 134, 171, 201, 202, 204, 206, 207, 209, 210, 211, 212, 213, 214, 216, 217, 218, 219, 220, 221, 223, 227, 231, 232, 240, 261, 262, 270, 271, 281, 291;
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 \& Science (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.

Anthropology 101, 101L; Astronomy 109, 110 or 110H, 115H, 140; Biology 109 or 109H, 109L, 111, 115, 139, 149, 177, 200, 211, 212, 214, 229, 239, 259; Chemistry 109, 115, 119, 209, 210, 219 or 219H, 229, 249, 259; Earth Science 110 or 110H, 115, 150 or 150H; Environmental Studies 140, 200, 259; Geography 101, 101L; Geology 101, 101L, 140, 150 or 150H, 201; Mathematics $080 / 081,105,140,145,150,160,170,180$ or $180 \mathrm{H}, 185,219$ or 219H, 280, 287; Physical Science 115, 117, 118; Physics 109, 210, 211, 217, 227, 237, 279, 289; Science 200; Social Science 219 or 219H
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 \& Behavioral Sciences (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.

Anthropology 100 or $100 \mathrm{H}, 103,104$ or 104H, 105, 125; Asian American Studies 101; Biology 200; Black Studies 101; Chicano Studies 101; Communication Studies 103 or 103H, 206 or 206H; Communications and Media Studies 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 $100 \mathrm{H}, 102$; History 101 or $101 \mathrm{H}, 102$ or $102 \mathrm{H}, 105,118,120$ or $120 \mathrm{H}, 121$ or $121 \mathrm{H}, 122,123,124$ or $124 \mathrm{H}, 125,127,133,146$, 150, 151, 153, 160, 161, 163, 181; Human Development 107, 110; Interdisciplinary Studies 117H, 155; Kinesiology, Professional 150; Political Science 101 or $101 \mathrm{H}, 200$ or $200 \mathrm{H}, 201,220,235$; Psychology 100 or $100 \mathrm{H}, 140,157,170,200,219,230,240,250$; Science 200 ; Sociology 100 or 100 H, 112, 140 or 140 H, 240; Television/Video Communications 105 or 105H; Women's Studies 101, 102
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

The associate degree and certificate curriculum in library technology are designed to successfully prepare students for employment above the beginning clerk status as para-professionals in school, public, special, or academic libraries. Course content covers terminology, organization, procedures, standards, and practices. Entry-level positions are available in this field as library technical assistants, library assistants, library technicians and library media technicians. Students must have acquired keyboarding skills prior to completion of either the Library Technology Degree or Certificate (recommended keyboarding speed of at least 35 words per minute). This may be accomplished by:

1. successfully completing Business Applications 110, Computer Keyboarding Skills or Business Applications 115, Computer Keyboarding Speed and Accuracy Development, OR
2. credit by exam

Students must meet with the Library Technology Chair and Counselor for academic advisement before beginning the program.

To receive an A.A. Degree or a Certificate in Library Technology, a grade of "C" or better in each major course ("P" for Library Technology 053 , Library Internship) is required.

## Library Technology Degree (sac.libr.aa)

Major requirements for the associate in arts degree:

| Course | Units |
| :---: | :---: |
| Business Applications 110, Computer Keyboarding Skills | 1-2 |
| Business Applications 115, Computer Keyboarding Speed \& Accuracy Development |  |
| Business Applications 179, Introduction to Microsoft Office (4) | ) 3-4 |
| Business Applications 183, Microsoft Word (3) |  |
| Library Technology 101, Introduction to Library Technology | 3 |
| Library Technology 110, Technical Services* | 3 |
| Library Technology 122, Public Services* | 3 |
| Library Technology 054, Children's Library Services* | 3 |
| Library Technology 102, Information Sources for Paraprofessionals: Tools and Techniques* |  |
|  |  |
|  |  |
| Library Technology 053, Library Internship | 3 |
| Electives | 6 |
| Total | 26-27 |

*Courses not taught every semester.

Electives must be selected from the following courses: Accounting 010; Communication Studies 101 or $101 \mathrm{H}, 103$ or $103 \mathrm{H}, 104$; Computer Science 103, 173; Education 100; English 270; Human Development 107, 120, 221; Library and Information Studies 100, 103; Management 120, 121, 122, 123; Paralegal 100; Psychology 100 or 100 H .

## Library Technology Certificate (sac.libr.ca)

Students must meet with the Library Technology Chair and Counselor for academic advisement before beginning the program.
A Certificate in Library Technology can be earned through completion of the following required courses:

| Course | Units |
| :---: | :---: |
| Business Applications 110, Computer Keyboarding Skills | 1-2 |
| Business Applications 115, Computer Keyboarding Speed \& Accuracy Development |  |
| Business Applications 179, Introduction to Microsoft Office (4) | 4 |
| Business Applications 183, Microsoft Word (3) |  |
| Library Technology 101, Introduction to Library Technology | 3 |
| Library Technology 110, Technical Services* | 3 |
| Library Technology 122, Public Services* | 3 |
| Library Technology 054, Children's Library Services* | 3 |
| Library Technology 102, Information Sources for Paraprofessionals: Tools and Techniques* |  |
| Library Technology 053, Library Internship | 3 |
| Total | 20-21 |

*Courses not taught every semester.

## MANAGEMENT

## Management A.A. Degree (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.

| Course | Units |
| :--- | ---: | ---: |
| Business 100, Fundamentals of Business | 3 |
| Business 222, Business Writing | 3 |
| Business 120, Principles of Management (3) | 3 |
| Management 120, Principles of Management (3) |  |
| Business 121, Human Relations \& Organizational Behavior (3) | 3 |
| Management 121, Human Relations \& Organizational Behavior (3) |  |
| 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) |  |

## General Management Certificate (sac.mgt.cert)

The associate degree and 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 of the degree program provides the student with managerial skills and theory including communicating, decision-making, organizing, motivating, and human relations. The student will then specialize in one of the following option areas: general management, small business, or supervision. The certificate program provides practical skills for the student within specific areas of management.

| Course | Units |
| :--- | ---: |
| Accounting 101, Financial Accounting | 4 |
| Business 100, Fundamentals of Business | 3 |
| Business 120, Principles of Management | 3 |
| Select ONE course from the following: <br> Business 222, Business Writing (3) | 3 |
| Management 122, Business Communications (3) |  |
| Select TWO courses from the following: <br> Business 105, Legal Environment of Business (3) <br> Business 125, Introduction to International Business (3) <br> Business 150, Introduction to Information Systems and <br> Applications (3) |  |
| Marketing 113, Principles of Marketing (3) |  |
| Select ONE course from the following: <br> Business 121, Human Relations \& Organizational Behavior (3) | 3 |
| Management 121, Human Relations \& Organizational <br> Behavior (3) |  |

## Management Certificate (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.


## Retail Management Degree (sac.mgtre.aa)

| Course | Units |
| :--- | ---: |
| Accounting 101, Financial Accounting | 4 |
| Business 080, Business Mathematics | 3 |
| Business 120, Principles of Management |  |
| Management 120, Principles of Management |  |
| Business 121, Human Relations \& Organizational Behavior |  |
| Management 121, Human Relations \& Organizational Behavior |  |, 3

## Retail Management Certificate (sac.mgtrt.ca)

The 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 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.

| Course | Units |
| :--- | ---: |
| Accounting 101, Financial Accounting/ | 4 |
| Business 080, Business Mathematics | 3 |
| Business 120, Principles of Management | 3 |
| Management 120, Principles of Management | 3 |
| Business 121, Human Relations \& Organizational Behavior |  |
| Management 121, Human Relations \& Organizational Behavior | 3 |
| Business 222, Business Writing _or- | 3 |
| Management 122, Business Communications | 3 |
| Computer Science 100, The Computer \& Society | 3 |
| Management 135, Human Resource Management | 3 |
| Marketing 111, Principles of Retailing | 3 |
| Marketing 113, Principles of Marketing |  |
| Communication Studies 101, Introduction to <br> Interpersonal Communication | OR- |
| Communication Studies 101H, Honors Introduction to <br> Interpersonal Communication | 3 |

## Entertainment Industry Management Certificate (sac.mgten.cert)

| Course | Units |
| :--- | ---: | ---: |
| Counseling 116, Career/Life Planning and Personal Exploration | 3 |
| Management 105, Cooperative Work Experience Education <br> - Occupational | 4 |
| Management 120, Principles of Management | 3 |
| Management 125, Organizational Leadership |  |
| -OR | 3 |
| Counseling 125, Exploring Leadership |  |$\quad 3$

## Small Business Certificate (sac.mgtsb.cert)

| Course | Units |
| :--- | ---: |
| Accounting 035, QuickBooks | 2 |
| Business 170, Principles of Small Business Management | 3 |
| Management 120, Principles of 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 |  |
| $\quad$ Market Validation (2) |  |
| Entrepreneurship 109, Powerful Presentations (2) |  |
| Total |  |

## Supervision Certificate (sac.mgtsv.cert)

Course Units

Management 120, Principles of Management $\quad 3$
Management 121, Human Relations \& Organizational Behavior 3
Management 122, Business Communications $\quad 3$

| Management 135, Human Resource Management |  | 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 011, Basic Blueprint Reading | 2 |  |
| Manufacturing Technology 053, Technical Mathematics | 3 |  |
|  <br> Operation | 3 |  |
| Manufacturing Technology 071, CNC Program Writing <br>  <br> Tolerancing | 3 |  |
|  | Total Core Requirements | 15 |

## CNC Lathe Set Up and Operation Option Degree (sac.mngla.as) and Certificate (sac.mngla.ca)

The associate degree and certificate 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. Entry level positions for which the successful graduate would qualify are: CNC lathe operator, CNC lathe machinist, and CNC machine set-up person.

Major requirements for the associate degree and certificate:

| Courses | Units |
| :--- | ---: |
| Manufacturing Technology Core Requirements | 15 |
|  <br> Operations | 3 |
| Manufacturing Technology 076, CNC Turning Center <br> Set Up \& Operation | 3 |
| Manufacturing Technology 078, Mastercam Lathe | 3 |
| Manufacturing Technology 086, Advanced CNC Lathe <br> Programing, Set Up \& Operation | 3 |
| Electives from the list | Total |

Select from the following electives: Manufacturing Technology 028, 068, 073, 074, 075, 077, 084, 094, 098, 103, 104, 105, 106; Welding 008.

## CNC Machine Set Up and Operation Option Degree (sac.mngma.as) and Certificate (sac.mngma.ca)

The associate degree and certificate 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. Entry level positions for which the successful graduate would qualify are: CNC machine operator, CNC machinist, and CNC machine set-up person.
Major requirements for the associate degree and certificate:

| Courses | Units |  |
| :--- | ---: | ---: |
| Manufacturing Technology Core Requirements | 15 |  |
|  <br> Operations | 3 |  |
|  <br> Operations | 3 |  |
|  <br> Operation | 3 |  |
|  <br> Operation | 3 |  |
|  <br> Operation | 3 |  |
| Electives from the list | Total | 36 |

Select from the following electives: Manufacturing Technology 028, $073,075,078,084,086,098,103,104,105,106$; Welding 008.

CNC Milling Machine Set Up and Operation Option Degree (sac.mngmi.as) and Certificate (sac.mngmi.ca)
The associate degree and certificate 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. Entry level positions for which the successful graduate would qualify are: CNC mill operator, CNC mill machinist, and CNC machine set-up person.
Major requirements for the associate degree and certificate:

| Courses | Units |  |
| :--- | ---: | ---: |
| Manufacturing Technology Core Requirements | 15 |  |
|  <br> Operations | 3 |  |
| Manufacturing Technology 073, Mastercam-2D Geometry, <br> 2D Toolpaths | 3 |  |
| Manufacturing Technology 074, CNC Milling Center Set Up <br> \& Operation | 3 |  |
| Manufacturing Technology 084, Advanced CNC Milling Center <br> Set Up \& Operation | 3 |  |
| Manufacturing Technology 094, CNC Horizontal Mill Set Up <br> \& Operation | 3 |  |
| Electives from the list | Total | 36 |

Select from the following electives: Manufacturing Technology 028, $059,073,075,076,077,078,086,098,103,104,105,106$; Welding 008.

## CNC Programmer A-Mastercam Option Degree (sac.mngpa.as) and Certificate (sac.mngpa.ca)

The associate degree and certificate 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. Entry level positions for which the successful graduate would qualify are: CNC machinist, and CNC programmer.
Major requirements for the associate degree and certificate:

Courses

Units

| Manufacturing Technology Core Requirements | 15 |
| :--- | :--- |
| Manuch |  |

Manufacturing Technology 073, Mastercam-2D Geometry, 3 2D Toolpaths
$\overline{\text { Manufacturing Technology 074, CNC Milling Center Set Up } 3}$ \& Operation
Manufacturing Technology 075, Mastercam-3D Geometry, 3 3D Surfaces
Manufacturing Technology 076, CNC Turning Center Set Up 3 \& Operation
Manufacturing Technology 077, Mastercam-3D Toolpath and 3 CAM Applications
Manufacturing Technology 078, Mastercam Lathe $\quad 3$
Electives from the list 3
Total
36
Select from the following electives: Manufacturing Technology 028, 059, 068, 084, 086, 098, 103, 104, 105, 106.

## Conventional Machining Option Degree (sac.mngem.as) and Certificate (sac.mngem.ca)

The associate degree and certificate curriculum in manufacturing technology-conventional machining is designed to prepare the student for entry or advancement in the machine tool field. Entry level positions for which the successful graduate would qualify are: production machinist, general machinist, milling machine operator, engine lathe operator, shop helper.
Major requirements for the associate degree and certificate:

| Course | Units |
| :--- | ---: |
| Manufacturing Technology Core Requirements | 15 |
| Manufacturing Technology 059, Advanced Turning <br> Concepts \& Operations | 3 |
| Manufacturing Technology 068, Advanced Milling <br> Concepts \& Operations | 3 |
| Manufacturing Technology 069, Job Shop Skills | 3 |
| Welding 008, Oxyacetylene-Arc Welding | 3 |
| Electives from the list | 9 |
|  | Total |

Select from the following electives: Manufacturing Technology 028, 073, 074, 076, 077, 078, 084, 086, 098, 103, 104, 105, 106.

## Solidworks 3D Solid Modeling Certificate (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. The program provides recognition for the completion of four semester-length courses in the use of the Solidworks software.

Major requirements for the certificate:
$\left.\begin{array}{lr}\text { Course } & \text { Units } \\ \hline \text { Manufacturing Technology 103, Solidworks Basic Solid Modeling } & 3 \\ \text { Engineering 103, Solidworks Basic Solid Modeling } & 3 \\ \hline \begin{array}{l}\text { Manufacturing Technology 104, Solidworks Intermediate Solid } \\ \text { Modeling }\end{array} & \\ \text { Engineering 104, Solidworks Intermediate Solid Modeling }\end{array}\right)$

## 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 \& 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 (sac.mktg.aa)

Core Courses:
Units
Marketing 113, Principles of Marketing 3
Business 222, Business Writing $\quad 3$
Select ONE course from the following: 3
Business 100, Fundamentals of Business (3)
Entrepreneurship 100, Introduction to Innovation and
Entrepreneurship (3)

Sequence Requirements:
(All sequence courses must be completed to earn this degree)


## Contemporary Marketing Certificate (sac.mktg.cert)

Core Courses: Units
Marketing 113, Principles of Marketing 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 \& Increase Sales |  |
| 21st Century Marketing Sequence: |  |
| Marketing 123, Marketing and Technology - Trends and C Edges |  |
| 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/ for Export |  |
| Business 145, Channels of Distribution in International Ma | 1 |
| Advertising \& Distribution Sequence: |  |
| Marketing 125, Advertising \& Promotion - Get the Word Out \& Keep your Customers Buying |  |
| Marketing 126, Distributing Products \& Services - Reaching Customers Where They Shop |  |
| Total | 18 |

## Advertising Certificate (sac.mktga.cert)

| Course | Units |  |
| :--- | ---: | ---: |
| Marketing 112, Principles of Advertising | 3 |  |
| Marketing 113, Principles of Marketing | 3 |  |
| Marketing 115, Consumer Behavior | 3 |  |
| Business Applications 160, Microsoft Publisher |  | 3 |
|  | Total | 12 |


| Professional Selling Certificate (sac.mktgp.cert) |  |
| :--- | ---: |
| Course | Units |
| Business 222, Business Writing |  |
| Management 122, Business Communications | 3 |
| Marketing 113, Principles of Marketing | 3 |
| Marketing 114, Professional Selling | 3 |
| Communication Studies 101, Introduction to | 3 |
| Interpersonal Communication |  |
| Communication Studies 101H, Honors Introduction to <br> Interpersonal Communication |  |
|  | Total |

## MATHEMATICS

## Option 1 <br> Mathematics Degree (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.

Major requirements for the associate in arts or science degree:

| Course | Units |
| :--- | ---: |
| Mathematics 180, Analytic Geometry \& Calculus | 4 |
| Mathematics 180H, Honors Analytic Geometry \& Calculus |  |
| Mathematics 185, Analytic Geometry \& Calculus | 4 |
| Mathematics 280, Intermediate Calculus | 4 |
| Mathematics 287, Introduction to Linear Algebra and <br> Differential Equations (5) <br> Mathematics 290, Linear Algebra (4) <br> -OR- |  |
| Mathematics 295, Beginning Differential Equations (4) | $4-5$ |
| Computer Science 120, Introduction to Programming | 3 |
| Computer Science 112, Java Programming) |  |

## Option 2 <br> Associate in Science in Mathematics for Transfer (sac.math.ast)

This degree is pending approval from the California Community College Chancellor's Office. Please consult a SAC counselor and the SAC college website for the latest information.

## MEDICAL ASSISTANT

## Medical Assistant-Administrative/Clinical (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.

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 |
| Business 080, Business Mathematics | 3 |

Elective must be 3-4 units selected from the following courses: 3-4 BA 179 Introduction to Microsoft Office (4)
BA 180 Advanced Microsoft Office (3)
BA 183 Microsoft Word (3)
BA 184 Advanced Microsoft Word for the Workplace (3)
MA 020 Bloodborne and Airborne Pathogen Standards (0.5)
MA 056 Computer Applications for the Medical Office (3)

## Recommended electives:

MA 001 Cooperative Work Experience Education -
Occupational (1-4)
MA 020 Bloodborne and Airborne Pathogen Standards (0.5)
MA 056 Computer Applications for the Medical Office (3-0) MA 098 Topics (0.5-3)

Total 21-22

## Medical Assistant-Administrative/Clinical (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 proficiency 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.

## 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

## Modern Languages Degree (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 in 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.
Major requirements for the associate in arts degree:
Note: Presently, the associate degree is offered in French or Spanish. A minimum of 13 units in the major language with completion of both courses numbered 201 and 202 are required.

| Course | Units |
| :--- | ---: |
| French 101, 102 | $5-5$ |
| French 201 or $201 \mathrm{H}, 202$ or 202 H | $5-5$ |
| French 211, 214 | $2-2$ |
| Spanish 101 or $101 \mathrm{H}, 102$ or 102H - | $5-5$ |
| Spanish 201 or 201H, 202 or 202H | $5-5$ |
| Spanish 212, 213 | $3-3$ |
| Ten units in a second foreign language other than the major | $5-5$ |
| $\quad$ Chinese 101, 102 (5-5) |  |
| French 101, 102 (5-5) |  |
| Japanese 101, 102 (5-5) |  |
| Spanish 101 or 101H, 102 or 102H (5-5) |  |
| Vietnamese 101, $102(5-5)$ |  |

Electives (selected from list below):
Three units of electives to be selected from the following: A third language; Anthropology 100 or $100 \mathrm{H}, 104$ or 104 H ; Art 101, 102, 103, 104, 105; Business Applications 052, 053, 054; Communication Studies 101 or 101H, 102, 152; Dance 112; English 104 or 104H, 271, 272; Geography 100 or 100H, 101; History 101 or $101 \mathrm{H}, 102$ or $102 \mathrm{H}, 124$ or $124 \mathrm{H}, 150,151,153$; Library Technology 102; Music 101 or 101H; Philosophy 106 or 106H, 112; Political Science 220; Spanish 195A or 195B.

## Total Units (Minimum)

Important: Students who are planning to transfer to a four-year institution should consult with a counselor or the Chair of the Modern Languages Department for specific information regarding the college of their choice. A second language is recommended in some schools and required in others.

## MUSIC

## Option 1

## Music Degree (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.

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 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 with MIDI (1) | $1-2$ |
| Music 146, Digital Recording Studio Techniques I (2) |  |
| Music 211, Music History \& Literature | 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 132, The Jazz Singers (1)
Music 134, Vocal Jazz Workshop (1)
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 177, Latin Jazz Ensemble (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 \& 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 \& Drums (1)
Music 179, Technique Studies for Pianists (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 \& Repertoire (1)
Music 215A, Applied Music (Advanced Private Instruction) (1)
Music 268, Intermediate Keyboard Repertoire (1)
Total

## Option 2 <br> Associate in Arts in Music for Transfer

This degree is pending approval from the California Community College Chancellor's office. Please consult a SAC counselor and the SAC website for the latest information.

## Digital Music Production Certificate (sac.musdm.cert)

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.
Requirements for the certificate:

| Course | Units |
| :--- | ---: |
| Music 111, Basic Theory \& Ear, Training | 4 |
| Music 142, Creating Music with MIDI | 1 |
| Music 143, Intermediate Techniques of MIDI Sequencing | 1 |
| Music 144, Projects in Electronic Music | 1 |
| Music 146, Digital Recording Studio Techniques I | 2 |
| Music 147, Digital Recording Studio Techniques II | 2 |
| Music 148, Digital Music Synchronization to Video | 2 |
| Music 149, The Business of Music | 2 |
| Plus 2 units from the elective list below | 2 |
|  | Total |

Electives must be chosen from the following courses: Music 109, 112, 121, 122, 123, 124, 125A, 125B, 140, 161, 162, 163, 164A, 164B, 166A, 166B, 170, 173, 185, 186, 187, 188, 190, 218.

## NURSING

## Nursing Degree (sac.nrspr.as) Pre-Nursing for the Bachelor's Degree in Nursing

Courses recommended for upper division standing (check with the Division Counselor and the transfer school to verify current courses):

California State University, Long Beach and California State University, Fullerton, and California State University, Dominguez Hills.

| Course | Units |
| :--- | ---: |
| Chemistry 119, Fundamentals-General \& Organic | 5 |
| Biology 239, General Human Anatomy | 4 |
| Biology 249, Human Physiology | 4 |
| Biology 229, General Microbiology | 5 |
| Psychology 100, Introduction to Psychology | 3 |
| Psychology 100H, Honors Introduction to Psychology | 4 |
| English 101, Freshman Composition |  |
| English 101H, Honors Freshman Composition | 4 |

## Recommended electives: Biology 217.

Please check with transfer institution for additional prerequisite courses.

## Nursing for the R.N. Degree (sac.nrsrn.as)

The program is designed to meet the needs of licensed R.N.'s who wish to gain college credits for previous educational preparation and to broaden their knowledge by taking general education courses to fulfill the requirements for the associate in science degree with a major in nursing. Transcript evaluation may allow up to a maximum of 38 units of credit for previous nursing education.

Requirements for an associate degree:

1. The candidate for the degree must possess a current California R.N. license.
2. Each candidate for the A.S. degree program must satisfy the general education requirements for graduation.
3. The following Nursing-Continuing Education courses may be used as electives: 098, 198.

## Nursing-Registered Nursing Degree (sac.nrsrg.as)

The Associate Degree Nursing program is approved by the California Board of Registered Nursing and accredited by the National League for Nursing Accrediting Commission. It is designed to qualify the student for the licensure examination and entry into practice as a Registered Nurse (R.N.). Additionally, completion of the Associate in Science Degree in Nursing prepares a student to transfer to a four-year institution for completion of a baccalaureate degree. The curriculum follows the Santa Ana College Conceptual Framework for Nursing.

Advanced placement in the program may be granted to those students with certain prior experience, licensed vocational nurse (L.V.N.), registered nursing education, or equivalent. Advance Placement/ Transfer/Challenge applicants require an individual appointment with the Program Director or designee.
Effective January 2011, all students, including Advance Placement/ Transfer/Challenge applicants, are required to successfully complete the diagnostic assessment test of preparation, Assessment Technology Institute's Test of Essential Academic Skills (TEAS) prior to entry into the Nursing Program. Remediation is required if the test is not passed.

Completion of an R.N. orientation session (call the Counseling Department for an appointment) is strongly advised.

Please refer to www.sac.edu (go to the A-Z Index, click "N", then click Nursing) for current and updated information on admission information.

## Admission Prerequisites:

These prerequisites are also required for Nursing-Registered 101, Nursing Process: Non-Critical Adults, and Nursing-Registered 101L, Nursing Actions: Non-Critical Adults. Nursing students must meet current departmental catalog requirements.

1. Completion of the 12th grade, verified by transcript or equivalent GED score validated by appropriate testing institution, AND submission of transcripts from all colleges attended.
2. 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 |
| English 101H, Honors Freshman Composition |  |
|  | Total |

Biology 229 General Microbiology (5 Units) can be substituted for Biology 139 Health Microbiology.

The science prerequisites must be completed within five (5) years of applying to the Nursing Program.

Please note: Effective Fall 2011, the completed prerequisites require a grade of "C" or higher with an overall Grade Point Average (GPA) of 2.5 or higher.
3. After all prerequisites have been completed, the student must submit a Prerequisite Verification Form. This form is available in the Health Sciences/Nursing Office (R-213, 714-564-6825) or online at www.sac.edu.

## Admission Procedures: For Students Entering the First Semester:

A multi-criteria admission selection process will be implemented when the current entry list nears depletion. The estimated time for the implementation of this selection process for entry could be Fall 2013 or Spring 2014. 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 TEAS test. Please refer to the Nursing website for specific point breakdown. Once the multi-criteria admission selection process begins, applications will be accepted from February 15th through March 2nd for Fall admissions and from September 15th through September 30th for Spring admissions.

Until the current entry list nears depletion, the following process for admission to the Nursing Program remains in place: one-half of the number of students accepted for entry into the Nursing sequence is based on "first to complete all of the requirements, first admitted." One-half of the students will be accepted based on a priority numerical ranking of their grades in the science and English prerequisite courses. The ranking system is $\mathrm{A}=10$ points, $\mathrm{B}=5$ points and $\mathrm{C}=1$ point. Students will be placed on the numerical ranking list from the highest to lowest points. 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.

## For Advanced Placed Students:

Students are admitted on a space available basis according to "first to complete all of the requirements, first admitted." Continuing and Re-entry students have priority over advance-placed students. 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.

Santa Ana College reserves the right to designate a certain number of spaces for contract agreements and/or meet grant designated requirements.

## Upon acceptance to all semesters:

1 Evidence of a physical examination by an M.D., Physician Assistant, or Nurse Practitioner must be submitted upon entry into the program verifying the applicant's physical ability to perform the academic and clinical requirements of an R. N. 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 in to the Nursing Program.
3. A cleared drug test may be required of all entering Nursing Students after acceptance into the program.
4. A current (within one year of issue date) CPR card for Healthcare Providers from the American Heart Association is required upon entry to the Nursing Program.
5. Malpractice insurance must be maintained throughtout the Nursing Program.
Students with incomplete physical information, CPR, malpractice insurance, background check, and drug testing, if required, will not be allowed into the clinical setting because of mandatory hospital and program requirements. If a student re-enters the program, a new background check and drug testing must be provided upon re-entry.
Students who are a "NO SHOW" for the first day of class will be dropped and replaced by an alternate.
Students may turn down entry to 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.

It is the student's responsibility to contact the Health Sciences/Nursing Office (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.

## Program Information:

The program is four semesters; there is no summer school. Students are required to have transportation to off-campus clinical sites. There are 1-2 clinical days per week. They may be day or evening 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 for further information.
Please note that this is considered a full-time program. Students are advised to limit outside employment.
Excessive work schedules combined with family and school commitments may contribute to being unsuccessful in the program.
Approximate cost for supplies and fees can be obtained on the website at www.sac.edu.
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) (i) of the Business and Professions Code authorizes the BRN to deny licensure to applicants convicted of crimes substantially related to nursing.

The BRN requires all licensure applicants to provide a valid Social Security Number.

## The R.N. program has three options:

Option I-Generic R.N., academic program of two years.
Applicants interested in this option must:
a. Complete the admission prerequisites and
b. Be admitted into the Santa Ana College R.N. program at the first year of the program or be advance placed.

## Option II-L.V.N. to R.N., academic program of one year.

Licensed Vocational Nurses (L.V.N.s) 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:
a. Complete the admission prerequisites,
b. Be admitted into the Santa Ana College R.N. program in the beginning of the second year of the program (third semester) with college credit granted for 18 units of L.V.N. courses,
c. Complete the Role Transition course with "Pass" before entering the program, and
d. Be advance placed which is dependent upon space availability in the program.
Option III - Thirty (30) Unit Option (BRN regulation 1429), academic program of one year.
Information on the Thirty (30) Unit L.V.N. Option is available in the Health Sciences/Nursing Office. Applicants interested in this option are required to meet with the Program Director regarding this option being a non-degree option and:
a. Must be licensed in California as a Vocational Nurse,
b. Complete the admission prerequisites required for the 30 Unit L.V.N. Option,
c. Be admitted into the Santa Ana College R.N. program in the beginning of the second year of the program (third semester),
d. Complete the Role Transition course with "Pass" before entering the program, and
e. Be advance placed which is dependent upon space availability in the program.
Major requirements for the Associate Degree in Nursing:

| Course | First Year | Units |
| :---: | :---: | :---: |
| First Semester |  |  |
| Nursing-Regist | g Process: Non-Critical Adults | 4.5 |
| Nursing-Registered 101L, Nursing Actions: Non-Critical Adults 5.0 |  |  |
| *Nursing-Registered 103, Pharmacological Concepts for Nursing3.0 |  |  |
| *Nursing-Regist | ursing Concepts | 1.5 |
| Second Semester |  |  |
| Nursing-Registe \& Children | ing Process: Women, Parents | 4.0 |
| Nursing-Registe \& Children | ring Actions: Women, Parents | 4.6 |
| Course <br> Third Semester | Second Year | Units |
| Nursing-Registe \& Psychosocia | sing Process: Critical Biological eds I | 4.0 |
| Nursing-Registe <br> \& Psychosocia | ursing Actions: Critical Biological eds I | 5.0 |
| Fourth Semester |  |  |
| Nursing-Registe \& Psychosocia | sing Process: Critical Biological eds II | 4.0 |
| Nursing-Registe \& Psychosocia | ursing Actions: Critical Biological eds II | 5.4 |
| **Nursing-Regis | ole Transition | 2.0 |

* Nursing 103 and 112 may be taken prior to entering into the first semester of the Nursing Program.
** Nursing 200 is for Advance-placed students only; not required for generic students.

There are no required electives for the degree. If desired, these courses are recommended: Biology 217; Chemistry 119; Medical Assisting 051A; Nursing Registered 098, 106A, 106B, 106C, 198, 206A, 206B, 206C; Nursing-Continuing Education 145.

The California Board of Registered Nursing stipulates that R.N. students must complete sixteen units of natural, behavioral, and social sciences, as well as six (6) units of communications skills, to qualify for examination and licensure.

## Graduation requirements for the Associate Degree in Nursing:

Course Unit
Total nursing units required
*Biology 249, Human Physiology 4
*Biology 139, Health Microbiology 4

English 101
-OR-

4
Honors English 101H
Communication Studies 102 (at SAC)
Communication Studies 145 (at SAC)
Communications 101 or 110 (at SCC)

## Sociology 100

-OR -
Honors Sociology 100H
Psychology 100

- OR -

Honors Psychology 100H
Select one course from the Associate Degree Plan A,
3
Social \& Behavioral Science category, American Institutions
Select one course from the Associate Degree Plan A,
3

Humanities category
Total72

* The astrisk before courses indicates they are required for Option III - 30 Unit Option L.V.N. students.
Math proficiency for graduation: Successful completion of the Santa Ana College Math Proficiency Exam or Intermediate Algebra 080/081.
Lifelong learning and cultural breadth requirements are met upon completion of the Nursing Program.
See the Nursing Counselor to determine catalog rights and Santa Ana College graduation requirements which includes mathematics.


## Educational Concerns:

Students or concerned parties have the right to contact the Board of Registered Nursing (BRN) or the National League for Nursing Accrediting Commission (NLNAC) 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 944910

Sacramento, CA 94244-2100
(916) 322-3350 / www.rn.ca.gov

NLNAC
3343 Peachtree Rd, NE, Suite 850
Atlanta, GA 30326
(404) 975-5000 / www.nlnac.org

## NUTRITION AND DIETETICS

## Nutrition and Dietetics Degree (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.
Major requirements for the associate in arts degree:

| Course | Units |
| :--- | ---: |
| Nutrition \& Food 115, Nutrition -or- | 3 |
| Nutrition \& Food 115H, Honors Nutrition | 3 |
| Nutrition \& Food 116, Principles of Food Preparation | 3 |
| Biology 229, General Microbiology | 5 |
| Chemistry 219, General Chemistry | 5 |
| Psychology 100, Introduction to Psychology | 3 |
| Psychology 100H, Honors Introduction to Psychology | 3 |
|  | Total |

## Culinary Arts Option Certificate (sac.culn.ca)

The culinary arts option 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 Home Economics with a foods emphasis. The program offers core courses to be utilized for designation as a (C.C.P.) Certified Catering Professional accredited by Purdue University's (R.H.I.M.I.) Restaurant, Hotel, Institutions Management Institute.
A certificate in catering arts can be earned through completion of the following required courses:

| Course U | Units |
| :---: | :---: |
| Culinary Arts 062, Basic Techniques of Cooking -OR- | 2 |
| Nutrition \& Food 062, Basic Techniques of Cooking |  |
| Nutrition \& Food 065, Contemporary Nutrition | 3 |
| Nutrition \& Food 101, The Food System \& Career Opportunitie | es |
| Nutrition \& Food 118, Culltural Foods | 3 |
| Culinary Arts 066, Baking | 3 |
| Culinary Arts 070, Beverage Service | 2 |
| Culinary Arts 100, Introduction to Culinary Arts and Hospitality |  |
| Culinary Arts 110, Food Sanitation \& Safety |  |
| Nutrition \& Food 110, Food Sanitation and Safety |  |
| Culinary Arts 135, Gourmet \& International Foods | 2 |
| Culinary Arts 145, Foods Presentation Pantry/Garde Mange | 2 |
| Culinary Arts 200, Business Practices for Culinary Arts Professionals | 2 |
| Culinary Arts 299, Cooperative Work Experience Education | 1-4 |

## Hospitality Option Certificate (sac.nutho.ca)

The Hospitality Option Certificate is designed to prepare students with the knowledge and skills necessary to seek employment in the capacity of restaurant management, hotel/resort management, and special events/meeting planning.
A certificate in Hospitality can be earned through completion of the following required courses:

| Core Course | Units |
| :--- | ---: | ---: |
| Culinary Arts 070, Beverage Service | 2 |
| Culinary Arts 100, Introduction to Culinary Arts and Hospitality | 2 |
| Culinary Arts 110, Food Sanitation \& Safety | 3 |
| Nutrition \& Food 110, Food Sanitation and Safety |  |
| Culinary Arts 200, Business Practices for Culinary Arts <br> Professionals | 2 |
| Culinary Arts 299, Cooperative Work Experience Education | $1-4$ |
| Business 080, Business Mathematics | 3 |
| Kinesiology Health Education 107, Cardiopulmonary Resuscitation2 |  |
| Selected two courses from the following: <br> Fashion Design Merchandising 102, Promotion \& Coordination <br> (3) | 6 |
| Marketing 114, Professional Selling (3) |  |
| Business 170, Principles of Small Business Management (3) |  |

## OCCUPATIONAL THERAPY ASSISTANT

## Occupational Therapy Assistant Degree (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, American Occupational Therapy Association, 4720 Montgomery Lane, P.O. Box 31220, Bethesda, MD, 20824-1220, phone number (301) 652-2682. 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 Board of Occupational Therapy, 2005 Evergreen Street, Suite 2050, 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 environmental disabilities, across life phases, who need to remediate skills of everyday tasks of work, self care 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.
Advanced placement in the program for those students with prior occupational therapy assistant education will be evaluated on an individual basis by program facilitator.

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: (Required of all applicants except those that have a baccalaureate degree.) These tests are for purposes of guidance and for establishment that prerequisite skills of 101 and 101 L have been met.
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 Student Success Center.
b. Santa Ana College Test in Math, Level III, showing a total score at 18 or above or completion of Intermediate Algebra 080 or 081 with a grade of "C" or better.
2. English 101 or 101 H , with a grade of "C" or better.
3. Oral Communication Skill (3 units) - Satisfactory completion of Communication Studies 101 or $101 \mathrm{H}, 102,140,145,152$, with a grade of "C" or better.
4. Biology 149, Human Anatomy \& Physiology (4 units) or *Biology 239, Anatomy and *Biology 249, Human Physiology (8 units total) with a grade of "C" or better. (This is a prerequisite for Occupational Therapy Assistant 100.)
5. Psychology 100 or 100 H with a grade of "C" or better. (This is a prerequisite for Psychology 250.)
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 (О.T.A.).

SAC Instruction Programs/85
*Students contemplating transfer to four-year institutions should take these courses.

## Admission Procedures:

Applications to the OTA program will be accepted for a period of 4 months twice per year The application must include: Official transcripts showing grades for all prerequisite classes Official scores from the Health Occupations Basic Entrance Test (HOBET) test Registration with specified agency for background check and current health information Current CPR through the American Heart Association Completion of an on-campus application essay Admission into the program will be based on a point system. Applicants will be assigned points based on grades from prerequisite courses, score on the HOBET and score from the application essay. Students with the highest points will be accepted into the program.
Major requirements for the associate degree in Occupational Therapy Assistant:

| First Semester | First Year |
| :--- | ---: |
| Occupational Therapy Assistant 100, Terminology <br> \& Documentation for the O.T.A. | 1 |
| Occupational Therapy Assistant 101, Foundations of Occupation <br> \& Occupational Therapy | 4 |
| Occupational Therapy Assistant 101L, Exploration of <br> Occupation Through Activity | 2 |
| Occupational Therapy Assistant 110, Human Occupation <br> Across Lifespan | 3 |
| Second Semester |  |
| Occupational Therapy Assistant 102, Psychosocial Function <br> \& Dysfunction | 4 |
| Occupational Therapy Assistant 102L, Psychosocial <br> 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 |


| Third Semester | Units |
| :--- | ---: |
| Occupational Therapy Assistant 103, Physical Function <br> and Dysfunction | 4 |
| Occupational Therapy Assistant 103L, Physical Components <br> of Occupation | 2.5 |
| Occupational Therapy Assistant 201, Contemporary Models <br> of Occupational Therapy Practice | 4 |

## Fourth Semester

Occupational Therapy Assistant 202, Level II Fieldwork - Part I $\quad 6$
Occupational Therapy Assistant 203, Level II Fieldwork - Part II $\quad 6$
Units Required for Major
45
Graduation Requirements for the Associate Degree in Occupational Therapy Assistant.

Total $\quad 71-79$

## OCEANOGRAPHY

(See Geology)

## OFFICE TECHNOLOGY

(See Business Applications)

## PARALEGAL

## Paralegal Degree (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
2. Students will complete the Para 121 Ethics class
3. Students will incorporate ethical standards in the Law Office Management class through problem solving and discussion board discussions.
4. Understand legal concepts
5. Students will demonstrate legal concepts in the legal specialty classes through examination and practical exercises.
6. Students will draft law office memorandum and appellate briefs in the Advanced Legal Writing class incorporating analysis of legal concepts.
7. Communicate effectively orally and in writing
8. Students will draft law office memorandum.
9. Students will use proper grammar, punctuation, and spelling.
10. Students will create client correspondence.
11. Be proficient in using legal technology
12. Students will demonstrate the use of the Microsoft suite (Word, PowerPoint and Excel) in their completion of assignments.
13. Students will complete assignments using legal specific software.
14. Exhibit critical thinking skills
15. Students will analyze cases related to the legal specialty classes.
16. 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 or better with the exception of Paralegal 297, which is pass/no pass.

## Paralegal Degree (sac.para.aa)

## 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 in the areas of language and composition, mathematics, social science and behavioral sciences, natural sciences, humanities and the arts. This excludes courses in physical education, 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 prior to or concurrently with other legal specialty courses except Paralegal 120.

## Required 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 |
| PParalegal 150 Legal Transactions | 5 |
| Paralegal 246 Legal Research and Analysis | 4 |
| Paralegal 248, Advanced Research \& Writing | 3 |
| Business 105, Legal Environment of Business | 3 |
| *Paralegal 297, The Professional Paralegal | 2 |

## Effective Fall 2011: Paralegal 145 replaces 143 and 144

Effective Fall 2013 Para 150 combines and replaces Paralegal 130, 136 and 138. Paralegal 146 combines and replaces Paralegal 131 and 137. Students must choose a minimum of 3 units from the legal elective courses.

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Students must choose a minimum of 3 units from the legal elective
courses.
\begin{tabular}{lr} 
Legal Electives: & Units \\
\hline Paralegal 107, Principles \& Procedures in the Criminal Justice \\
System (3) \\
*Paralegal 122, Elder Law (2) \\
*Paralegal 132, Family Law \& Procedure (2) \\
*Paralegal 133, Workers' Compensation Law \& Procedure (2) \\
*Paralegal 134, Probate Law \& Procedure (2) \\
*Paralegal 135, Bankruptcy Law \& Procedure (2) \\
*Paralegal 138, Law of Business Organizations (2) \\
*Paralegal 139, Fundamentals of Labor Law (2) \\
*Paralegal 140, Immigration Law \& Procedure (2) \\
*Paralegal 147, International Commercial Agreements \\
\& 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)
\end{tabular}
    Paralegal 107, Principles & Procedures in the Criminal Justice 3
    System (3)
    *Paralegal 132, Family Law & Procedure (2)
    *Paralegal 133, Workers' Compensation Law & Procedure (2)
    *Paralegal 134, Probate Law & Procedure (2)
    *)
    *Paralegal 138, Law of Business Organizations (2)
    *Paralegal 139, Fundamentals of Labor Law (2)
    *aralegal 140, mmigration Law& Procedure (2)
        & Distribution Law (1)
    Maralegal 148, International Intellectua, Propert) Law (1)
    Paralegal 299, Cooperative Work Experience Education (1-4)
```

                            Total
    
## Paralegal Certificate (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
2. Students will complete the Para 121 Ethics class
3. Students will incorporate ethical standards in the Law Office Management class through problem solving and discussion board discussions.
4. Understand legal concepts
5. Students will demonstrate legal concepts in the legal specialty classes through examination and practical exercises.
6. Students will draft law office memorandum and appellate briefs in the Advanced Legal Writing class incorporating analysis of legal concepts.
7. Communicate effectively orally and in writing
8. Students will draft law office memorandum.
9. Students will use proper grammar, punctuation, and spelling.
10. Students will create client correspondence.
11. Be proficient in using legal technology
12. Students will demonstrate the use of the Microsoft suite (Word, PowerPoint and Excel) in their completion of assignments.
13. Students will complete assignments using legal specific software.
14. Exhibit critical thinking skills
15. Students will analyze cases related to the legal specialty classes.
16. 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 or better with the exception of Paralegal 297, which is pass/no pass.

## Paralegal Certificate (sac.para.ca)

A Paralegal Certificate is available only to students who have received an Associate in Arts or Science Degree or Bachelor of Arts or Science Degree from an accredited college or university. The student must meet the eighteen semester units of ABA approved courses in the areas of language and composition, mathematics, social science and behavioral sciences, natural sciences, humanities and the arts.

## Major requirements for students seeking the certificate.

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

## 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
*Paralegal 150 Legal Transactions
Paralegal 246 Legal Research and Analysis
Paralegal 248, Advanced Research \& Writing
Business 105, Legal Environment of Business
*Paralegal 297, The Professional Paralegal

## Effective Fall 2011: Paralegal 145 replaces 143 and 144

Effective Fall 2013 Para 150 combines and replaces Paralegal 130, 136 and 138. Paralegal 146 combines and replaces Paralegal 131 and 137. Students must choose a minimum of 3 units from the legal elective courses.

Students must choose a minimum of 3 units from the legal elective courses.

| Legal Electives: | Units |
| :--- | ---: |
| Paralegal 107, Principles \& Procedures in the Criminal Justice | 3 |
| System (3) |  |
| *Paralegal 122, Elder Law (2) |  |
| *Paralegal 132, Family Law \& Procedure (2) |  |
| *Paralegal 133, Workers' Compensation Law \& Procedure (2) |  |
| *Paralegal 134, Probate Law \& Procedure (2) |  |
| *Paralegal 135, Bankruptcy Law \& Procedure (2) |  |
| *Paralegal 138, Law of Business Organizations (2) |  |
| *Paralegal 139, Fundamentals of Labor Law (2) |  |
| *Paralegal 140, Immigration Law \& Procedure (2) |  |
| *Paralegal 147, International Commercial Agreements |  |
| \& 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 |  |

## 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.

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. 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 800-3638012. 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 (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 16.5 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 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 may 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 101 H , or 102 ) is a pre-requisite for externship.

The associate degree is accredited by the American Society of HealthSystem Pharmacists (ASHP). Students must complete each required course with a grade of "C" or better ( 0.5 unit of Pharmacy Technology 060 L or other L-series lab classes and externship with a grade of "P") to qualify for the degree option.

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 $\quad 3.5$

Pharmacy Technology 054, Pharmacy Calculations 2
Pharmacy Technology 056, Pharmacy Operations 4.5
Pharmacy Technology 057, Inpatient Pharmacy Services $\quad 1.75$
Pharmacy Technology 060, Sterile Products $\quad 4.5$
Pharmacy Technology 061, Parmacy Technology Skills Lab $\quad 0.5$
Pharmacy Technology 072, Pharmacy Technology Externship

## Recommended electives:

Business Applications 110 Computer Keyboarding Skills 1-2
Business Applications 115 Computer Keyboarding Speed and Accuracy Development (1-2)
Biology 139 Health Microbiology (4)
Biology 149 Human Anatomy and Physiology (4)
Chemistry 109 Chemistry in the Community (4)
Chemistry 119 Fundamentals - General and Organic (5)
Computer Science 100 The Computer and Society (3)
Pharmacy Technology 064 New Drug Update (1)
Pharmacy Technology 080 Pharmacy Calculations Review (2)
Pharmacy Technology 084 Sterile Products Update (4.5)
Communication Studies 097 American English Conversational Skills (3)
Communication Studies 101 Introduction to Interpersonal Communication (3)
Communication Studies 101H Honors Introduction to Interpersonal Communication (3)
Communication Studies 102 Public Speaking (3)
Communication Studies 107 Communication for the Health Care Professional (1.5)

Total

## Pharmacy Technology Advanced Certificate Option (sac.phar.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 16.5 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 may 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 101 H , or 102 ) is a pre-requisite for externship.

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.

| 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 054, Pharmacy Calculations | 2 |
| Pharmacy Technology 056, Pharmacy Operations | 4.5 |
| Pharmacy Technology 057, Inpatient Pharmacy Services | 1.75 |
| Pharmacy Technology 060, Sterile Products | 4.5 |
| Pharmacy Technology 061, Pharmacy Technology Skills Lab | 0.5 |
| Pharmacy Technology 072, Pharmacy Technology Externship | 4 |

## 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 064 New Drug Update (1)
Pharmacy Technology 080 Pharmacy Calculations Review (2)
Pharmacy Technology 084 Sterile Products Update (4.5)
Communication Studies 097 American English Conversational Skills (3)
Communication Studies 101 Introduction to Interpersonal Communication (3)
Communication Studies 101 $\overline{\mathrm{H}}^{\mathrm{OR}} \mathrm{Honors}$ Introduction to Interpersonal Communication (3)
Communication Studies $102 \underset{\text { Public Speaking (3) }}{\text { OR }}$
Communication Studies 107 Communication for the Health Care Professional (1.5)

Total

## Pharmacy Technology Basic Certificate Option (sac.pharb.cert)

The Basic Certificate option prepares students for entry-level employment as a pharmacy technician 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 may 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 101 H , 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.

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 054, Pharmacy Calculations | 2 |
| Pharmacy Technology 056, Pharmacy Operations | 4.5 |
| Pharmacy Technology 072, Pharmacy Technology Externship | 1 |

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 061, Parmacy Technology Skills Lab (0.5)
Pharmacy Technology 064 New Drug Update (1)
-AND -
Pharmacy Technology 080 Pharmacy Calculations Review (2)
Communication Studies 101 Introduction to Interpersonal Communication (3)
—OR -

Communication Studies 101 $\overline{\mathrm{H}}$ Honors Introduction to Interpersonal Communication (3)
Communication Studies 102 Public Speaking (3)
Communication Studies 107 Communication for the Health Care Professional (1.5)

Total

## PHILOSOPHY

## Philosophy Degree (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.

Major requirements for the associate in arts degree:

| Course | Units |
| :--- | ---: |
| Philosophy 106, Introduction to Philosophy | 3 |
| Philosophy 106H, Honors Introduction to Philosophy |  |
| Philosophy 108, Ethics | 3 |
| Philosophy 110, Critical Thinking |  |
| Philosophy 110H, Honors Critical Thinking |  |
| Philosophy 111, Introductory Logic |  |
| Philosophy 112, World Religions | 4 |
| Philosophy 118, History of Philosophy |  |
| Electives | 3 |
|  | Total |

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 $102 \mathrm{H}, 160$; Interdisciplinary Studies 121; Music 101 or 101 H ; Psychology 100 or 100 H ; Theatre Arts 233ABCD.

## PHOTOGRAPHY

## Photography Degree (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 fouryear 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:

| Course | Units |
| :--- | ---: |
| Art 101, Survey of Western Art History (3) |  |
| Art 102, Western Art History (3) - - - | 3 |
| Photography 150, History of Photography (3) | 3 |
| Art 110, Two-Dimensional Design | 3 |
| Photography 180, Beginning Photography | 3 |
| Photography 181A, The Zone System | 3 |
| Photography 182A, Alternative Processes (3) |  |
| Photography 183A, Photo Graphics (3) | 3 |
| Photography 185A, Landscape Photography | 3 |
| Photography 190, Introduction to Digital Photography | 3 |
| Photography 191, Intermediate Digital Photography | 3 |
| Photography 192, Portrait Photography | 3 |
| Photography 196, Introduction to Commercial Photography | 3 |
| Photography 200, The View Camera | 3 |
| Photography 291, Wedding and Quinceanera Photography | 3 |
| Electives | $1-3$ |

Electives must be chosen from the following courses: Art 162, 195;
Photography 009, 181B, 182B, 183B, 185B, 194, 197, 198, $293,294$.

## Commercial Photography Certificate (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 free lance 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: | Units |  |
| Art 124, Gallery Production (2) |  |  |
| Art 129, Graphic Design Concepts for the Web (3) |  |  |
| Art 162, Digital Design with Photoshop-I (3) |  |  |
| Business 170, Principles of Small Business Management (3) | 6 |  |
| Photography 150, History of Photography (3) |  |  |
| Photography 292, Portrait Photography (3) | Total | 22 |

## PHYSICS

## Physics Degree (sac.phys.aa)

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.

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 \& Calculus | 4 |
| Mathematics 185, Analytical Geometry \& Calculus | 4 |
| Mathematics 280, Intermediate Calculus | 4 |

Chemistry courses may be required for upper division standing (check with a counselor and the Transfer Center).

## PLANT BIOLOGY

(See Biological Science Degree for major requirements and counseling for transfer requirements.)

## POLITICAL SCIENCE

## Option 1 <br> Political Science Degree (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.
Required Courses: ..... Units
Political Science 101, Introduction to Government -OR - ..... 3
Political Science 101H, Honors Introduction to Government
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)
Political Science 200H, Honors American Political Thought (3)
4 units from courses below:
English 101, Freshman Composition (4)
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 100 H , 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

$$
-\mathrm{OR}-
$$

Honors Foreign Language 102
Foreign Language 202
-OR-
Foreign Language 202H
History 101, World Civilizations to the 16th Century (3)
History 101H, Honors World Civilizations to the 16th Century (3)

History 120, The United States to 1865 (3)
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 117 H , Honors Introduction to Global Studies (3)
Philosophy 106, Introduction to Philosophy (3)
Philosophy 106H, Honors Introduction to Philosophy (3)
Psychology 100, Introduction to Psychology (3)
Psychology 100H, Honors Introduction to Psychology (3)
Sociology 100, Introduction to Sociology (3)
Sociology 100 H , Honors Introduction to Sociology (3)
Communication Studies 140, Argumentation and Debate (3)
Total 25

## Option 2 <br> Associate in Arts in Political Science for Transfer (sac.polt.aat)

The Associate in Arts in Political Science for Transfer (AA-T) prepares students to transfer into the CSU system. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the AA-T degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU, Fullerton, in the Political Science major. See page page 39 for a list of additional requirements for all Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T) degrees. Upon completion of the AA-T in Political Science students will have an understanding of both the breadth and depth of the political science discipline. This knowledge will be grounded in the comprehension of political science principles, concepts, ideas, theories, research, and terminology. Students will also have the capacity to write and think in a critical and analytical way about issues pertaining to politics, government, and society.

| Required Courses: | Units |
| :--- | ---: |
| Political Science 101, Introduction to Government | 3 |
| Political Science 101H, Honors Introduction to Government |  |
| List A-Select 3 courses: | $9-10$ |
| Political Science 200, American Political Thought (3) |  |
| Political Science 200H, Honors American Political Thought (3) |  |
| Political Science 201, Introduction to Comparative Politics (3) |  |
| Political Science 220, International Politics (3) |  |
| Math 219, Statistics and Probability (4) |  |
| Math 219H, Honors Statistics and Probability (4) |  |
| Social Science 219, Statistics and Probability (4) |  |
| Sorial 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 <br> Psychology (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, college teaching. Completion of the two-year program is appropriate for students whose vocational plans include helping people, i.e., teaching, social welfare, probation, criminology, nursing, law, personnel work. Consult a counselor for information about course requirements for specific universities.

Major requirements for the associate in arts degree:


Courses recommended for upper division standing (check with a counselor and the transfer school to verify current courses).

## Option 2 <br> Associate in Arts in Psychology for Transfer (sac.psyc.aat)

The Associate in Arts in Psychology for Transfer (AA-T) prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree in psychology. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the AA-T degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU, Fullerton, in the Psychology major. See page 39 for a list of additional requirements for all Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AA-S) degrees. Upon completion of the AA-T in Psychology students will have a general understanding of main psychological theories as they pertain to development, personality, psychological disorders, learning, memory, and social dynamics as well as an understanding of the physiological basis of human behavior. This knowledge base will be grounded in the understanding of basic research methodology. Additionally, students will have the capacity to write and think in a critically analytical way about issues pertaining to human behavior and mental processes.

## Required Core ( $\mathbf{1 0}$ units)

1. Math 219, Statistics and Probability

Math 219H, Honors Statistics and Probability
Social Science 219, Statistics and Probability -OR-
Social Science 219H, Honors Statistics and Probability
2. Psychology 100, Introduction to Psychology -OR-
Psychology 100 H , Honors Introduction to Psychology
3. Psychology 219, Introduction to Research Methods in Psychology 3

List A - select one course (3 units)
Biology 109, Fundamentals of Biology

- OR-

Biology 109H, Honors Fundamentals of Biology
Psychology 200, Introduction to Biological Psychology
List B - select one course (3-4 units)
Any list A course not used above
English 101, Freshman Composition
English 101H, Honors Freshman Composition
List C - select one course (3-5 units)
Any course not selected above3-4

Anthropology 100, 100H, 101, 104, 104H; Biology 177, 211, 239;
Chemistry 119, 209, 219, 219H; English 102, 103, 103H, 104, 104H;
Human Development 107; Math 105, 140, 145, 150, 160, 170, 180,
180H; Physical Science 115; Physics 109, 210, 217, 279;
Psychology 140, 157, 170, 230, 240, 250; Sociology 100, 100H, 140,
140H, 240
Total Units for the Major

## 3 SCIENCE

## Science Degree (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.

Requirements for the associate in science degree:
Core Courses

## Units

Mathematics 180, Analytic Geometry \& Calculus
Mathematics 180H, Honors Analytic Geometry \& Calculus
Chemistry 219, General Chemistry
Chemistry 219H, Honors General Chemistry

## General Science Emphasis:

| Course | Units |  |
| :--- | ---: | ---: |
| Science Core Required Courses | 9 |  |
| Mathematics 185, Analytic Geometry \& Calculus | 4 |  |
| Electives |  |  |
|  | 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 ${ }^{\mathrm{B}}$ | 9 |  |
| Astronomy 109, Introduction to the Solar System | 3 |  |
| Astronomy 110, Introduction to Stars \& Galaxies | 3 |  |
| Astronomy 110H, Honors Introduction to Stars \& | Galaxies | 3 |
| Astronomy 140, Astronomy Laboratory | 1 |  |
| Mathematics 185, Analytic Geometry \& Calculus |  |  |
| Electives |  |  |
|  | Total | 6 |

${ }^{\text {A }}$ 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.
${ }^{\text {B Astronomy Emphasis Students may substitute Physics } 217 \text { for }}$ Chemistry 219.
${ }^{\text {C }}$ Completion of Physics 217/227/237 and/or Mathematics 280 highly recommended.

## Biology Emphasis:

Course
Units
Science Core Required Courses ${ }^{\text {D }} \quad 9$
$\overline{\text { Biology 211, Cellular \& Molecular Biology }} 5$
Biology 212, Animal Diversity \& Ecology
Biology 214, Plant Diversity \& Evolution Electives ${ }^{\mathrm{A}, \mathrm{E}}$
${ }^{\text {A }}$ 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 forMathematics 180/180H.
${ }^{\text {E }}$ 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 \& Qualitative Analysis | 5 |
| Mathematics 185, Analytic Geometry \& Calculus | 4 |
| Electives |  |
|  | Total |

A Electives for any emphasis of the Science Degree must be selected from the following courses:
Any course numbered 100 or higher in Astronomy, Biology, Chemistry, Earth Science, Environmental Studies, Geology, Physical Science, or Physics and Mathematics 185, 280.

F Completion of Chemistry 259 or Chemistry 249 and Math 185 highly recommended for Chemistry Emphasis Students.

## 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 ${ }^{\mathrm{A}, \mathrm{G}}$ | 9 |
|  | Total |

${ }^{\text {A }}$ 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***** $\quad 9$
Physics 217, Engineering Physics I 4
Physics 227, Engineering Physics II 4
Physics 237, Engineering Physics III
Mathematics 185, Analytic Geometry \& Calculus 4
Electives***** 5
Total $\quad 26$
*****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 (sac.socs.aa)

The associate degree curriculum in social science is designed to provide the student with a better understanding of man's 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.
Major requirements for the associate in arts degree:

## Required Courses

History 101/101H, World Civilizations to the 16th Century History 102/102H, World Civilizations Since the 16th Century
History 120/120H, United States to 1865 -OR -
History 121/121H, United States Since 1865
Anthropology 100/100H, Cultural Anthropology
Sociology 100/100H, Introduction to Sociology
Economics 120, Principles/Macro
Political Science 101/101H, Introduction to Government $\quad 3$
Psychology 100/100H, Introduction to Psychology
Select a minimum of 6 units from the recommended electives below:

Total
24

Recommended electives: Anthropology 101, 103, 125;
Computer Science 100; Geography 100 or 100 H , History 125, 127, 181; Interdisciplinary Studies 117H; Political Science 200 or $200 \mathrm{H}, 201,220$.

## SOCIOLOGY

## Option 1 <br> Sociology (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, 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.

Major requirements for the associate in arts degree:
Required courses
Units
Anthropology 100, Introduction to Cultural Anthropology -OR -
Anthropology 100 H , Honors Introduction to Cultural Anthropology
Psychology 100, Introduction to Psychology
Psychology 100 H , Honors Introduction to Psychology
Sociology 100, Introduction to Sociology
-OR -
Sociology 100H, Honors Introduction to Sociology
Sociology 140, Analysis of Social Trends \& Problems
Sociology 140H, Honors Analysis of Social Trends \& Problems
Selected electives (two courses from the following):
Anthropology 101, Introduction to Physical Anthropology
*Anthropology 104/English 104, Language \& Culture
*Anthropology 104H/English -104 H , Honors Language \& Culture
Anthropology 105/History 105, Ancient Mesoamerican Civilization
Anthropology 125/History 125, Native Americans in the U.S.
Mathematics 219/Social Science 219, Statistics \& Probability -OR-
Mathematics 219H/Social Science 219H, Honors Statistics \& Probability
Psychology 140, Introduction to Psychology of Adulthood \& Aging
Psychology 157, Introduction to Child Psychology
Psychology 240/Sociology 240, Introduction to Social Psychology
Sociology 112, Relationships, Marriage \& Family Dynamics

## Option 2 Associate in Arts in Sociology for Transfer (sac.soc.aat)

The Associate in Arts in Sociology for Transfer (AA-T) prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree in sociology. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the AA-T degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU campus, Fullerton, in one of seven different Sociology majors. See page 39 for a list of additional requirements for all Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AA-S) degrees. Upon completion of this degree students will accurately apply key sociological concepts when assessing their own and other societies; 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.

## Course

Units

## Required Core (includes List A) (10 units)

1. Sociology 100, Introduction to Sociology

Sociology 100H, Honors Introduction to Sociology

| vo courses |  |
| :---: | :---: |
| 2. Sociology 140, Analysis of Social Trends and Problems OR Sociology 140H, Honors Analysis of Social Trends and Problems |  |
| 3. Math 219, Statistics and Probability |  |
| Math 219H, Honors Statistics and Probability |  |
| Social Science 219, Statistics and Probability |  |
| Social Science 219H, Honors Statistics and Probability |  |
| List B - two courses (6 units) |  |
| Sociology 112, Relationships, Marriages, and Family Dynamics |  |
| Sociology 240, Introduction to Social Psychology |  |
| Psychology 240, Introduction to Social Psychology |  |
| List C - select one course (3-4 units) |  |
| Anthropology 100, Introduction to Cultural Anthropology |  |
| Anthropology 100H, Honors Introduction to Cultural Anthropology |  |
| English 101H, Honors Freshman Composition |  |
| English 102, Literature and Composition |  |
| English 103, Critical Thinking and Writing |  |
|  |  |
| Geography 102, Cultural Geography |  |
| Philosophy 110, Critical Thinking -8R- |  |
|  |  |
| Psychology 100, Introduction to Psychology <br> Psychology 100 H , 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; 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; Human Development 107; Political Science 101, 101H; Psychology 157; Science 200; Television/Video Communications 105, 105H; Women's Studies 101 |  |

List A - two courses2. Sociology 140, Analysis of Social Trends and Problems ORSociology 140H, Honors Analysis of Social Trends and Problems3. Math 219, Statistics and Probability
Social Science 219, Statistics -or - - Probability ..... 4
Social Science 219H, Honors Statistics and Probability
List B - two courses (6 units)
ociology 112, Relationships, Marriages, and Family Dynamics ..... 3
Psychology 240, Introduction to Social Psychology
List C - select one course (3-4 units)
Anthropology 100H, Honors Introduction to Cultural
English 101H, Honors Freshman Composition ..... 4

## SPEECH-LANGUAGE PATHOLOGY ASSISTANT

Speech-Language Pathology Assistant Degree (sac.slpa.aa)

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 Arts 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.A. Degree program, the graduate is eligible for registration as a Speech-Language Pathology Assistant by the Department of Consumer Affairs, Speech-Language Pathology \& Audiology \& Hearing Aid Dispensers Board. Prior to obtaining employment, students who have completed all A.A. degree requirements will need to apply for registration to practice in the State of California through the Department of Consumer Affairs, Speech Language Pathology \& Audiology \& Hearing Aid Dispensers Board, 2005 Evergreen Street, Suite 2100, Sacramento, CA 95815, phone number 916-263-2666. When applying for registration with the California board, applicants will be asked to answer questions related to the topic of felonies. 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 felonies, 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 \& Audiology \& Hearing Aid Dispensers Board website at www.speechandhearing.ca.gov.
Major requirements for the associate degree:
All A.A. degree requirements must be completed with a grade of C or better at the conclusion of the program.

| Course | Units |
| :--- | ---: |
| Speech Language Pathology Assistant 118, <br> Introduction to Speech-Language Pathology Assisting | 1 |
| Speech Language Pathology Assistant 119, <br> Speech, Language \& Hearing Development Across the Lifespan | 3 |
| Communication Studies 151, Voice \& Diction for Effective <br> Communications | $0-3$ |
| Human Development 107, Child Growth \& Development (DS1) |  |
| Psychology 157, Introduction to Child Psychology | 3 |
| Human Development 108A, Observation \& Assessment for <br> Early Learning \& Development | 3 |
| Speech Language Pathology Assistant 120, Speech-Language <br> Pathology Clinical Management and Procedures | 2 |
| Speech Language Pathology Assistant 150, Observation of <br> Speech-Language Pathology Clinical Practices | 0.5 |
| Speech Language Pathology Assistant 160, <br> Introduction to Communicative Disorders \& Treatment | 3 |
| Communication Studies 170, Introduction to Phonetics | 3 |
| Speech Language Pathology Assistant 180, Speech-Language <br> Pathology Screening Processes and Intervention Procedures | 3 |
| $\frac{\text { Speech Language Pathology Assistant 190, Clinical Fieldwork I }}{}$ | 2 |

Speech Language Pathology Assistant 200, 3
Adult \& Geriatric Communication Disorders
Human Development 205, Exceptionality \& Special Needs 3 in Human Development
Speech Language Pathology Assistant 250, Speech-Language 2
Pathology Assistant Clinical Fieldwork II

| Sign Language 110, American Sign Language I |  | 3 |
| :--- | ---: | ---: |
|  | Total | 37.5 |

General Education Requirements:
$\overline{\text { Biology 109, Fundamentals of Biology }} \begin{aligned} & \text {-OR }\end{aligned}$
Biology 109H, Honors Fundamentals of Biology
$\overline{\text { Biology 109L, Fundamentals of Biology Laboratory }}$
Biology 149, Anatomy \& Physiology

- OR -

Biology 239, General Human Anatomy
English 101, Freshman Composition
English 101H, Honors Freshman Composition
Psychology 100, Introduction to Psychology
Psychology 100 H , Honors Introduction to Psychology
Communication Studies 101, Introduction to Interpersonal
Communication

Interpersonal Communication
Communication Studies 103, Introduction to Intercultural Communication

| -OR- <br> Communication Studies 103H, Honors Introduction to Intercultural Communication | 3 |
| :---: | :---: |
| Anthropology 104, Language \& Culture |  |
| Anthropology 104H, Honors Language \& Culture |  |
| English 104, Language \& Culture | 3 |
| English 104H, Honors Language \& Culture |  |
| Mathematics 080, Intermediate Algebra |  |
| Mathematics 081, Intermediate Algebra |  |
| Psychology 140, Introduction to Psychology of Adulthood |  |
| Total | 30 |

To complete the AA degree requirements, students need to fulfil the requirements for American Institutions, Reading, Lifelong Understanding and Self-Development 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 Human 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, 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

## Television/Video Communications Degree (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.

The AA degree and certificate options for RSCCD TV/Video Communications department use the following courses as the COMMON, REQUIRED CORE FOR ALL:

| Course | Units |  |
| :--- | ---: | ---: |
| Television/Video Communications 100, Introduction to | 3 |  |
| $\quad$ Electronic Media: Broadcasting, Cable, Video | 3 |  |
| Television/Video Communications 110, Introduction to <br> Television Production | 3 |  |
| Television/Video Communications 112, Introduction to <br> Video Editing \& Post Production | 3 |  |
| Television/Video Communications 130, Principles of <br> Broadcast News | Total Core | 12 |

Major requirements for the associate in arts degree:

| Course | Units |
| :--- | ---: |
| *CORE COURSES* | 12 |

In addition, the following courses are required:
Television/Video Communications 115A, Single-Camera
Production
3
\& Editing
Television/Video Communications 120, Beginning Writing for 3
TV, Film and Corporate Video
Television/Video Communications 150, Producing \& Directing 3 for Television
Television/Video Communications 161, Fundamentals of Audio 1.5 for TV \& Film
$\overline{\text { Television/Video Communications 230A, Broadcast News } \quad 4}$ Production
Television/Video Communications 260, Lighting Systems \& Techniques for TV/Video
Plus 6 units from the elective list below2Pus 6 units from the elective list below6

Electives must be chosen from the following: Art 196A, 197A; Communications and Media Studies 130, 131, 230B, 230C, 230D; Communication Studies 151; Television/Video Communications 009, 010, 101, 103, 104, 105 or $105 H, 114$, 115B, 121, 131, 141, 142, 165, 181, 185, 187, 190, 215, 230B, 230C, 230D, 268, 298; Theatre Arts 110, 113, 131.

## 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 Certificate A-Television Production (sac.tva.ca)

Emphasis on orientation with studio and field equipment, production planning, program directing and post-production process.
Course Units
*CORE COURSES* 12

In addition, the following courses are required:
Television/Video Communications 115A, Single-Camera 3 Production \& Editing
$\overline{\text { Television/Video Communications 120, Beginning Writing for } 3}$ TV, Film and Corporate Video
Television/Video Communications 150, Producing \& Directing 3 for Television
Television/Video Communications 161, Fundamentals of Audio 1.5 for TV \& Film
$\overline{\text { Television/Video Communications 230A, Broadcast News } \quad 4}$ Production
Television/Video Communications 260, Lighting Systems \& 2 Techniques for TV/Video
$\overline{\text { Plus } 6 \text { units from the elective list below: }} 6$

## Total 34.5

Electives must be chosen from the following courses: Art 196A, 197A; Communication Studies 151; Communications and Media Studies 131, 230B, 230C, 230D; Television/Video Communications $009,010,101,103,104,105$ or $105 \mathrm{H}, 114,115 \mathrm{~B}, 121,123,131,141$, 142, 165, 181, 185, 187, 190, 230B, 230C, 230D, 268, 298; Theatre Arts 110, 113, 131.

## Television/Video Communications Certificate B-Broadcast Journalism (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.

| Course | Units |  |
| :--- | ---: | ---: |
| *CORE COURSES ${ }^{*}$ | 12 |  |
| In addition, the following courses are required: | 3 |  |
| Television/Video Communications 115A, Single-Camera <br> Production \& Editing | 3 |  |
| Television/Video Communications 120, Beginning Writing for <br> TV, Film and Corporate Video | 3 |  |
| Television/Video Communications 141, On-Camera Appearance | 3 |  |
| Television/Video Communications 161, Fundamentals of Audio <br> for TV \& Film |  |  |
| Television/Video Communications 230A, Broadcast News <br> Production | 4 |  |
| Television/Video Communications 230B, Broadcast News <br> Production | 4 |  |
|  <br> Techniques for TV/Video | 2 |  |
| Plus 3 units from the elective list below: | Total | 35.5 |

Electives must be chosen from the following courses: Art 196A, 197A; Communication Studies 151; Communications and Media Studies 131, 230C, 230D; Television/Video Communications 009, $010,101,103,104,105$ or $105 \mathrm{H}, 114,115 \mathrm{~B}, 121,123,131,142,143$, 150, 165, 181, 185, 187, 190, 198, 230C, 230D, 268, 298; Theatre Arts 110, 113, 131.

## Television/Video Communications Certificate C-Television Scriptwriter (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 and corporate video presentations.

| Course | Units |
| :--- | ---: |
| *CORE COURSES* | 12 |
| In addition, the following courses are required: |  |
| Television/Video Communications 101, Television \& Society: <br> A Visual History | 3 |
| Television/Video Communications 120, Beginning Writing for <br> TV, Film and Corporate Video | 3 |
| Television/Video Communications 121, Intermediate Writing for | 3 |
| TV \& Film |  |

Electives must be chosen from the following courses: Art 196A, 197A; Communication Studies 151; Communications and Media Studies 230B, 230C, 230D; Television/Video Communications $009,010,101,103,104,105$ or $105 \mathrm{H}, 114,115 \mathrm{~A}, 115 \mathrm{~B}, 121,123$, 131, 141, 142, 165, 181, 185, 187, 190, 230B, 230C, 230D, 268, 298; Theatre Arts 110, 113, 131.

## Television/Video Communications Certificate D-Computer Graphics and Animation for Video (sac.tvd.ca)

Emphasis on preparing the student for work in computer graphics and computer-generated animation as used in video productions. Students will learn concepts of design and application. Will also gain practical hands-on experience working with computer systems equipped with graphic, animation, and special effects software.

| Course | Units |
| :--- | ---: |
| *CORE COURSES* | 12 |
| In addition, the following courses are required: |  |
| Art 195, Introduction to Digital Media Arts | 3 |
| Television/Video Communications 181, 3D Modeling | 5 |
| Television/Video Communications 185, 3D Animation | 5 |
| Television/Video Communications 187, Electronic Graphics for | 2 |
| Television, Advanced Techniques |  |
| Plus 9 units from the elective list below: | 9 |
|  | Total |

Electives must be chosen from the following courses: Art 196A, 197A; Communication Studies 151; Communications and Media Studies 131, 230B, 230C, 230D; Television/Video Communications $009,010,101,103,104,105$ or $105 \mathrm{H}, 114,115 \mathrm{~B}, 121,123,131$, 141, 142, 143, 154, 165, 181, 185, 187, 230B, 230C, 230D, 268, 298; Theatre Arts 110, 113, 131.

## Television/Video Communications Certificate Media Studies (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.
*CORE COURSES* for other Television/Video Communications Certificates not required for this specialty Certificate.
Course Units
Television/Video Communications 100, Introduction to 3 Electronic Media: TV, Radio, Film \& the Internet
Television/Video Communications 101, Television \& Society: 3 A Visual History
Television/Video Communications 103 or Theater Arts 103, History of Film to 1945 OR
Television/Video Communications 104 or Theater Arts 104, History of Film from 1945 to Present
Television/Video Communications 105, Mass Media \& Society OR
Television/Video Communications 105H, Honors Mass Media \& Society
Television/Video Communications 120, Beginning Writing for 3 TV, Film \& Corporate Video

## THEATRE ARTS

## Option 1 (A) Performance Emphasis Degree (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.
Major requirements for the associate of arts degree:

| Core courses: 9 units | Units |
| :--- | ---: |
| Theatre Arts 100, Introduction to the Theatre | 3 |
| Theatre Arts 105, A Cultural History of World Theatre | 3 |
| Theatre Arts 110, Fundamentals of Acting | 3 |
| Theatre Arts 131, Stagecraft | $\mathbf{9}$ |
| Plus 9 units from the following courses |  |
| Theatre Arts 111, Intermediate Acting (3) |  |
| Theatre Arts 113, Acting for Television and Film (3) |  |
| Theatre Arts 118, Fundamentals of Scene Study (2) |  |
| Theatre Arts 132, Stage Makeup (2) |  |
| Theatre Arts 135, technical Production (1) |  |
| Theatre Arts 150, Theatre 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) | Total |

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.
Major requirements for the associate of arts degree:


List A (select 3): 9 units
Theatre Arts 111, Intermediate Acting (3)
Theatre Arts 131, Stagecraft(3)
Theatre Arts 132, Stage Makeup (3)
Theatre Arts 133, Stage Lighting (3)
Rehearsal and Performance (if not used as part of the core) to a maximum of 3 units chosen from the following courses: Theatre Arts 155, Children's Theatre Ensemble (2) Theatre Arts 150, Theatre 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)
Technical Theatre Practicum (if not used as part of the core) to a maximum of 3 units chosen from the following courses: Theatre Arts 135, Technical Production (1) Theatre Arts 150, Theatre Production (2)
Total Units for the Major

## Entertainment Lighting Technology Certificate (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

Requirements for the certificate:

| Core Courses: 14.5 units | Units |  |
| :--- | ---: | ---: |
| Theatre Arts 131, Stagecraft | 3 |  |
| Theatre Arts 133, Stage Lighting | 3 |  |
| Theatre Arts 165, Introduction to Intelligent Lighting | 2 |  |
| Theatre Arts 166A, Intermediate Programming | 2 |  |
| Theatre Arts 166B, Advanced Programming \& Design Projects | 1 |  |
| Theatre Arts 167, Set Up for Intelligent Lighting | 1 |  |
| Theatre Arts 168A, Computer Applicastions for Lighting | 2.5 |  |
| Theatre Arts 170, Entertainment Technology Internship | 1 |  |
| Plus a minimum of 3 units from the following courses: | 3 |  |
| Theatre Arts 135, Technical Production (1) <br> Theatre Arts 150, Theatre Production (2) |  |  |
|  | Total | 17.5 |

## 9 WELDING

## WeldingTechnology Degree (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.

Major requirements for the associate degree:

| Course | Units |
| :--- | ---: | ---: |
| Welding 008, Oxyacetylene-Arc Welding | 3 |
| Welding 025A, Intermediate Arc Welding | 3 |
| Welding 029A, Advanced Arc Welding Level I | 3 |
| Welding 039A, Inert Gas Welding Level I | 3 |
| Welding 053, Math/Blue Print Reading for Welders | 3 |
| Manufacturing Technology 028, Basic Metals Technology | 3 |
| Please select 3 units from the following list: | $\mathbf{3}$ |
| Business 170, Principles of Small Business Management (3)  <br> English 061, Introduction to Composition (3)  <br> Manufacturing Technology 053, Technical Mathematics (3)  <br> Communication Studies 101, Introduction to Interpersonal  <br> $\quad$ Communication (3)  <br> Communication Studies 101H, Honors Introduction to  <br> $\quad$ Interpersonal Communication (3) $\quad$ Total | 21 |

## Welding Technology Certificate(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 certificaton 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.

Major requirements for the certificate:

| Course | Units |
| :---: | :---: |
| Welding 008, Oxyacetylene-Arc Welding | 3 |
| Welding 025A, Intermediate Arc Welding | 3 |
| Welding 029A, Advanced Arc Welding Level I | 3 |
| Welding 039A, Inert Gas Welding Level I | 3 |
| Welding 053, Math/Blue Print Reading for Welders | 3 |
| Manufacturing Technology 028, Basic Metals Technology | 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) |  |
| Communication Studies 101H, Honors Introduction to Interpersonal Communication (3) |  |

## Advanced Arc-Semi-Automatic Welding (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 certificaton 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.

Major requirements for the certificate:

| Course | Units |  |  |
| :--- | ---: | :---: | :---: |
| Welding 029B, Advanced Arc Welding Level II | 3 |  |  |
| Welding 029C, Advanced Arc Welding Level III | 3 |  |  |
| Welding 029D, Advanced Arc Welding Level IV | 3 |  |  |
| Welding 039B, Inert Gas Welding Level II | 3 |  |  |
| Welding 039C, Inert Gas Welding Level III | 3 |  |  |
| Welding 040B, Welding Training Certification Level II | 3 |  |  |
| Welding 040C, Welding Certification Training Level III | 3 |  |  |
| Welding 041B, Welding Certification Exam Preparation Level II | 3 |  |  |
| Total |  |  | 24 |

## WOMEN'S STUDIES

## Women's Studies Degree (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.

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 |

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 40, 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.

## 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 designatioins. Counselors can always help students interpret this information.

| C-ID | SAC COURSE |
| :--- | :--- |
| ACCT 110 | ACCT 101, Financial Accounting |
| AJ 122 | CJ 107, Principles and Procedures in the Criminal Justice System |
| AJ 150 | CJ 108, Crime Scene Investigation |
| AJ 200 | CJ 102, Introductin to Corrections |
| AJ 220 | CJ 220, Juvenile Delinquency and Control |
| CDEV 100 | HUD 107, Child Growth and Development |
| KIN 100 | KNPR 101, Introduction to Kinesiology |
| KIN 101 | KNHE 105+107, First Aid and Personal Safety+ Cardiopulmonary Resuscitation |
| PHIL 110 | PHIL 111, Introductory Logic |
| SOCI 110 | SOC 100 or 100H, Introduction to Sociology or Honors Introduction to |
|  | Sociology |
| SOCI 130 | SOC 112, Relationships, Marrieages, and Family Dynamics |
| THTR 111 | THEA 100, Introduction to Theatre |
| THTR 171 | THEA 131, Stagecraft |
| THTR 173 | THEA 133, Stage Lighting |
| THTR 175 | THEA 132, Stage Makeup |
| THTR 192 | THEA 135, Technical Production |
| THTR 192 | THEA 150, Theatre Production |

At the time of catalog publication many more SAC courses were pending C-ID approval. Please consult a counselor for the latest C-ID information.

## 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 101/101H 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
Unit(s): 2.0
Class Hours: 32 Lecture total.
Preparation of accounting records for businesses using the QuickBooks software in the Windows environment. Topics include customer transactions, vendor transactions, bank reconciliations, reports, company file setup, and customization of QuickBooks.

## 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.

## Accounting 102

## Managerial Accounting

Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: Accounting 101. 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.

## 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.

Accounting 105
Intermediate Federal and California Taxes
Unit(s): 4.0
Class Hours: 64 Lecture total.
This course teaches expanded concepts and regulations pertaining to income tax for individuals, and introduces concepts and regulations pertaining to income tax for corporations and partnerships It also introduces tax planning and research and deals with special individual income tax issues. Suggested preparation: Accounting 104 or California Tax Education Council Certification.

## Accounting 106

Cooperative Work Experience Education
Occupational
Unit(s): 1.0-4.0
Class Hours: 64 Lecture total.
Supervised paid or volunteer experience in student's major including new or expanded responsibilities. One credit for each 5 hours worked per week to a maximum of 4 units for 20 hours worked per week each semester. Limitation of 16 units in occupational cooperative education courses. Students must be enrolled in a minimum of 7 units including 4 units in Accounting 106. Grade: Pass/No Pass Only.

Accounting 107
Accounting Skills Development
Unit(s): 1.0-6.0
Class Hours: 288 Laboratory total. Students choose from six modules in accordance with individual needs and abilities: interactive financial accounting, managerial and cost accounting, or intermediate accounting; Excel for financial accounting, managerial and cost accounting, or intermediate accounting. Each unit of credit requires 16 lecture and 32 laboratory hours. Suggested preparation: completion or concurrent enrollment in 100 level accounting course.

## 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.

## 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.

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.

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.)

## 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.

## Accounting 160

Accounting With Sage MAS Software
Unit(s): 3.0
Class Hours: 48 Lecture total.
Hands-on training in the use of Sage MAS integrated accounting software, covering setup and transaction processing for the three core modules: General Ledger, Accounts Payable and Accounts Receivable. Suggested preparation: Completion of a basic accounting course or practical accounting experience.

## Accounting 161

Accounting with Sage MAS Software -
Advanced
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: ACCT 160 with a minimum grade of C

Expanded hands-on training in the use of Sage MAS Software, covering setup and transaction processing for the primary operations modules of a merchandising business: Inventory Management, Sales Order and Purchase Order.

## Accounting 170

Microsoft Dynamics for Financial Accounting

- Core Modules

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 the core modules of general ledger, accounts payable, and accounts receivable, and financial reporting for service businesses. Suggested preparation: completion of or current enrollment in Accounting 101.

## Accounting 171

Microsoft Dynamics for Financial Accounting Operations and Analysis
Unit(s): 4.0
Class Hours: 64 Lecture total.
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. Suggested preparation: completion of Accounting 101 and 170.

## Accounting 173

Microsoft Dynamics for Project Management and Control
Unit(s): 4.0
Class Hours: 64 Lecture total.
Hands-on training in the use of Microsoft Dynamics integrated software covering project planning and monitoring. Covers project management from both an operational and financial perspective. Includes an introduction to Enterprise Resource Planning and Management. Suggested preparation: completion of or current enrollment in Accounting 102.

Accounting 174
Microsoft Dynamics for Business Planning
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 Acct 102 and 173. (Same as Entrepreneurship 174.)

Accounting 204
Managerial Cost Accounting
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Accounting 102
Presents the theory 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.

## Accounting 205

Intermediate Accounting
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Accounting 102 Second-year accounting dealing with conceptual framework, adjustments, and financial statements, present and future value concepts, cash, investments, receivables, cost and valuation procedures for inventories, accounting for plant and intangible assets.

## ANTHROPOLOGY (ANTH)

Anthropology 100
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.

## Anthropology 100H

Honors Introduction to Cultural Anthropology
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: A high school or college GPA of 3.0 and or above.

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.

## Anthropology 101

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.

## Anthropology 101L

Physical Anthropology Laboratory
Unit(s): 1.0
Class Hours: 48 Laboratory total.
Prerequisite: Anthropology 101 or concurrent enrollment.

Laboratory exercises and experiments designed to explore and understand the primary areas of physical anthropology: evolutionary theory, principles of genetics, comparative anatomy, physiology, behavior and ecology of vertebrates with an emphasis on nonhuman primates, analysis of fossil evidence for human evolution, human biology and variation, growth and adaptability, and biomedical anthropology. Includes both traditional and virtual laboratory experiences.

Anthropology 103
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.

## Anthropology 104

## Language and Culture

Unit(s): 3.0
Class Hours: 48 Lecture total.
General introduction to the processes of human communication. Includes the relationship between language and culture, acquisition of first and second languages, languages in contact, sociolinguistics and the effects of both language and culture on inter/intra group communication. Languages spoken in the local area are used as basis of study. (Same as English 104.)

## 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 and or above.

Enriched, in-depth study of the processes of human communication, including the relationship between language and culture, acquisition of first and second languages, languages in contact, sociolinguistics and the effects of both language and culture on inter/intra group communication. Languages spoken in the local area are used as the basis of study. Requires individual research and oral presentations of readings in a seminar setting. (Same as English 104H.)

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.)

## 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.

## 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. (Same as History 125.)

## 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. 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 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.

## Art 100H

Honors Introduction to Art Concepts
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: A high school or college CPA 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.

Art 101
Survey of Western Art History I: Prehistory Through the Middle Ages
Unit(s): 3.0
Class Hours: 48 Lecture total.
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.

Art 102
Survey of Western Art History II: Renaissance Through the Twentieth Century
Unit(s): 3.0
Class Hours: 48 Lecture total.
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.

Art 103
African Art History
Unit(s): 3.0
Class Hours: 48 Lecture total.
History and appreciation of the arts of Africa and The Diaspora. Examines the continent of Africa within socio-political, aesthetic and religious cultural contexts and the impact of African art on Western art in Europe and the Americas.

## 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.

## 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.

Art 106
Asian Art History
Unit(s): 3.0
Class Hours: 48 Lecture total.
Historical survey of the visual arts of China, Japan, India 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.

## Art 108

Contemporary Art History: Art Since Mid-
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.

## Art 110

## 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.

Art 111
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

## Art 121A

## Fundamentals of Typography

Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total. Prerequisite: Art 195.

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.

## Art 121B

Advanced Typography
Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total. Prerequisite: Art 121A.

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.

## Art 122

## Graphic Design I

Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total.
Prerequisite: Art 195.
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.

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.

Art 129
Graphic Design Concepts for the Web
Unit(s): 3.0
Class Hours: 48 Lecture, 16 Laboratory total. Prerequisite: Art 195

Introduction to graphic design for Web.
An overview of the elements and principles of art as they relate to Web design. Includes learning the technical requirements for colors, fonts, file optimization, effects, image resolution, and special effects. Includes creative Web design projects. (Same as Computer Science 155.)

Art 130
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.

## Art 131

## 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.

## Art 132A

## Beginning Pastel Drawing and Painting

Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total. Prerequisite: Art 130.

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.

Art 132B
Intermediate Pastel Drawing and Painting Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total. Prerequisite: Art 132A.

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.

## 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.

## Art 140B

## Watercolor Painting

Unit(s): 2.0
Class Hours: 16 Lecture, 48 Laboratory total. Prerequisite: Art 140A.

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.

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.

Art 143
Landscape Watercolor
Unit(s): 2.0
Class Hours: 16 Lecture, 48 Laboratory total. Prerequisite: Art 140A.

Intermediate course in transparent watercolor using the Southern California landscape as studio and subject for paintings. Explores variety of techniques, papers, brushes, pigments. Further study of compositional/conceptual elements leading to development of individual expression.

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.

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.

## Art 152

## Ceramics-Intermediate Throwing

Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total. Prerequisite: Art 151.

Further study of wheel thrown techniques, with an emphasis on functional, utilitarian forms. Students provide own clay and tools.

## Art 153

## Ceramics-Intermediate Handbuilding

Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total. Prerequisite: Art 151.

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.

Art 154
Ceramics Summer Workshop
Unit(s): 3.0
Class Hours: 24 Lecture, 72 Laboratory total.
Prerequisite: Art 151.
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.

## Art 155

Plaster Mold Making
Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total.
Prerequisite: Art 151.
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.

## Art 156

Clay Calculation: an Approach in Color Study
Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total.
Prerequisite: Art 151.
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.

Art 157
Ceramics-Raku and Saggar Firing Techniques Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total. Prerequisite: Art 151.

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

## Art 158

## Ceramic Mural Project

Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total.
Prerequisite: Art 151
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.

## Art 159A

Ceramic Color Decoration: Low Temperature Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total. Prerequisite: Art 151.

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.

## Art 159B

## Ceramic Color Decoration: High Temperature

 Unit(s): 3.0Class Hours: 32 Lecture, 64 Laboratory total. Prerequisite: Art 151.

Exploration of surface color decoration on ceramic vessels within the realm of high stoneware temperatures. Emphasizes glazing techniques such as marbling, feathering, mishima, brush decoration, stencils, stamp printing, spraying, slip painting, glaze trailing, wax resist, and terra sigallata.

## Art 162

## Digital Design With Photoshop-I

Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total.
Prerequisite: Art 195 or portfolio approval. An introduction to using Photoshop for Web, print, CD, 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.

## Art 164

Web Design With Flash
Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total. Prerequisite: Art 129 or 195 or 229 or
Computer Science 155 or 156 or portfolio approval.

Introduction to web design using digital media tools; graphics, illustrations, text, sound, motion, using Flash and other software programs for the web. Students research how Flash is used in business presentations, advertising, entertainment, and self-promotion. Overview of elements and principles of design and motion. May be repeated.

## Art 165

## 3D Character Animation

Unit(s): 3.0
Class Hours: 48 Lecture, 48 Laboratory total.
Prerequisite: Art 197A or TV/Video Communications 185.

Instruction in theories and practice of character animation using 3D software. May be repeated.

## 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 Commu-
nications 181 or Art 162 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.

## Art 167

3D Commercial Applications
Unit(s): 3.0
Class Hours: 48 Lecture, 48 Laboratory total
Prerequisite: Art 197A or TV/Video Communications 185.

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.

Art 168
Digital Media: Portfolio and Business
Strategies
Unit(s): 3.0
Class Hours: 32 Lecture, 48 Laboratory total.
Prerequisite: Art 122 or portfolio review.
Creation of digital portfolio, career planning and business operations for employment or continued education. Students will identify job markets, define career goals, develop resume, create portfolio for print and/or web, and develop interviewing skills. Includes overview of business requirements for working with customers. Art 162, 191A, 192A recommended.

Art 180
Video Game \& Interactive Media Art
Unit(s): 3.0
Class Hours: 32 Lecture, 48 Laboratory total. Prerequisite: Art 196A.

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.
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.

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 story boarding as used in television, film and electronic games. Includes sketching, inking, the development of characters, storyboard development and an overview of cartoon and storyboard history.

## Art 191A

## Digital Publishing With Indesign

Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total. Prerequisite: Art 195.

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 the InDesign software.

## Art 192A

Digital Illustration With Illustrator
Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total. Prerequisite: Art 195.

An introduction to design and illustration techniques using the Adobe Illustrator software on the Macintosh. Instruction in commonly used professional industry topics and techniques, for print, animation and the web.

Art 195
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.

## Art 196A

3D Modeling Fundamentals
Unit(s): 5.0
Class Hours: 48 Lecture, 96 Laboratory total. Prerequisite: Art 195 Instruction in digital 3D modeling using 3D Studio Max from introductory to high-intermediate level. Course includes orientation to the software interface, lectures and tutorials on how to build objects using primitives, modifiers, polygonal and Spline modeling methods. Emphasis on practical application in games, architecture, and film.

## Art 197A

## 3D Animation Fundamentals

Unit(s): 5.0
Class Hours: 48 Lecture, 96 Laboratory total. Prerequisite: Art 196A

Instruction in using 3 d 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.

## Art 221

Graphic Design II
Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total. Prerequisite: Art 122.

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.

Art 230
Intermediate Drawing
Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total.
Prerequisite: Art 130.
Continued study in drawing with ad-
ditional 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.

Art 231
Intermediate Life Drawing
Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total. Prerequisite: Art 131.

Continued experience in drawing from the live model with opportunity for development of self-expression. Further exploration of media and techniques.

## Art 232

Advanced Life Drawing
Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total Prerequisite: Art 231.

Intensive study of the figure with further development of drawing skills, composition, technique and media utilizing the live model. Projects vary each semester.

## Art 233

## Advanced Drawing

Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total
Prerequisite: Art 230 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.

## Art 240

## Intermediate Watercolor

Unit(s): 2.0
Class Hours: 16 Lecture, 48 Laboratory total. Prerequisite: Art 140B.

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.

## Art 241

## Intermediate Painting

Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total. Prerequisite: Art 141.

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.

Art 242
Advanced Painting
Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total. Prerequisite: Art 241.

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.

Art 243
Portrait and Life Painting
Unit(s): 3.0
Class Hours: 32 Lecture, 48 Laboratory total.
Prerequisite: Art 131 or Art 141
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 soluable oil and acrylic. Study of traditional and contemporary methods and directions.

Art 251
Ceramics-Advanced Throwing and
Handbuilding
Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total.
Prerequisite: Art 152.
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.

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.

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.

## Art 253

## Electric Kiln Ceramics

Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total. Prerequisite: Art 151.

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.

## Art 282

Jewelry II
Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total. Prerequisite: Art 182.

Continued instruction in the making of jewelry by means of fabrication, including techniques in silver soldering, die forming, etching, tool making, and hinge mechanisms.

Art 283
Jewelry III
Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total. Prerequisite: Art 282

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.

## 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.

## 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.

## Art 296

## Computer Graphics Production

Unit(s): 1.5
Class Hours: 8 Lecture, 48 Laboratory total.
Prerequisite: Art 196A or Television/Video Communications 181.

Projects focusing on 3D modeling and animation for video games, film/ TV, advertising and marketing. May be repeated

## 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.

## 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.

## 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.

## 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.

## 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.

## Astronomy 140

## Astronomy Laboratory

Unit(s): 1.0
Class Hours: 48 Laboratory total.
Prerequisite: Astronomy 109 or 110 or 110 H 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.

## AUTOMOTIVE TECHNOLOGY (AUTO)

## Automotive Technology 002

## Essentials

Unit(s): 3.0
Class Hours: 48 Lecture total.
Intended for automotive majors. Introduction to basic practical applications of technology required for advanced-level courses. Theory, parts nomenclature, and description of systems are emphasized.

Automotive Technology 003
Introduction to Diesel/Hybrid Vehicles
Unit(s): 2.0
Class Hours: 32 Lecture total.
This course will present an introduction and overview of the Diesel, Hybrid, and Alternative Fuel Systems used on modern vehicles. System components and terminology, and job safety and skills will be emphasized. (Same as Diesel 003). May be repeated.

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, drive lines, and electrical systems. This course is recommended for consumers and students interested in entering the automotive repair field. Students furnish hand tools and safety equipment.

Automotive Technology 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 Diesel 008 and Welding 008.)

## 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 motor vehicles. Suggested preparation: Automotive Technology 002 or 006. (Same as Diesel 022.)

## Automotive Technology 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: Automotive Technology 002 or 006, and 022.

Automotive Technology 025
A-6 Alternative Course - Electrical Systems Unit(s): 2.0
Class Hours: 32 Lecture total. This course is a Bureau of Automotive Repair certified course. It is designed to prepare the student to pass the Alternative A-6 Electrical Systems exam Grade: Pass/No Pass Only.

Automotive Technology 032
Tune-Up
Unit(s): 5.0
Class Hours: 64 Lecture, 64 Laboratory total. Tune-up procedures, including fuel, ignition, oscilloscope, emission control, and computer systems. Students furnish hand tools and safety equipment. Suggested preparation: Automotive Technology 002 or 006 .

Automotive Technology 033
A-8 Alternative Course - Engine Performance
Unit(s): 2.0
Class Hours: 32 Lecture total
This course is a Bureau of Automotive
Repair certified course. It is designed
to prepare the student to pass the Alternative A-8 Engine Performance exam. Grade: Pass/No Pass Only.

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. Students furnish hand tools and safety equipment. Suggested preparation: Automotive Technology 002 or 006.

## 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. Students furnish hand tools and safety equipment. Suggested preparation: Automotive Technology 002 or 006.

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. Students must furnish hand tools and safety equipment. Suggested preparation: Automotive Technology 002 or 006.

## Automotive Technology 054

Front Ends
Unit(s): 4.5
Class Hours: 48 Lecture, 80 Laboratory total. Designed to instruct the student in the operation and service of the following: steering, suspension systems and wheel alignment procedures. Suggested preparation: Automotive Technology 002 or 006.

## Automotive Technology 062

Air Conditioning and Heating
Unit(s): 3.0
Class Hours: 36 Lecture, 60 Laboratory total Operation, testing, and servicing of air conditioning and heating systems. Students must furnish hand tools and safety equipment. Suggested preparation: Automotive Technology 002 or 006. (Same as Diesel 062.)

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 service of modern automotive engines and accessories. Students furnish hand tools and safety equipment. Suggested preparation: Automotive Technology 002 or 006 (may be taken concurrently).

## 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. Students furnish hand tools and safety equipment. Suggested preparation: Automotive Technology 002 or 006 (may be taken concurrently).

## 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. Students furnish hand tools and safety equipment. Suggested preparation: Automotive Technology 002 or 006 (may be taken concurrently.)

## Automotive Technology 080

Computer Controls
Unit(s): 3.0
Class Hours: 48 Lecture total.
Theory, component function, and diagnosis of automotive computer controlled systems. Examples include GM, Ford, and import OBD-2 systems. Suggested preparation: Automotive Technology 002 or 006 and 032 or one year tune-up related trade experience.

## Automotive Technology 081

Fuel Injection Systems
Unit(s): 3.0
Class Hours: 48 Lecture total.
Covers the theory, operation and diagnosis of import and domestic gasoline fuel injection systems currently used with emphasis on those systems used on domestic and import vehicles. Suggested preparation: Automotive Technology 002 or 006 and 032 or one year tune-up related trade experience.

## 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. Suggested preparation: Automotive Technology 022, 032, or one year trade experience in automotive tune-up.

Automotive Technology 083

## Automotive Lab Scopes

Unit(s): 3.0
Class Hours: 48 Lecture total.
This course covers the use of automotive lab scopes for analyzing modern vehicles. Test procedures will be emphasized.
Suggested preparation: Automotive Technology 002 or 006 and 032 or one year tune-up related trade experience. The use of San Tools will also be covered.

## Automotive Technology 084

OBD-II
Unit(s): 3.0
Class Hours: 48 Lecture total.
This course will present an overview of the OBD-II (On Board Diagnostics) system used on modern automobiles. Terminology, codes, monitors and scantool use will be emphasized. Suggested preparation: Automotive Technology 002 or 006

## Automotive Technology 085

Basic Clean Air Car Course
Unit(s): 5.0
Class Hours: 80 Lecture total.
Bureau of Automotive Repair recognized Basic Clean Air Car Course. This course fulfills one of the required courses the student needs to take the State Smog Technician Exam. Grade: Pass/No Pass Only. Open Entry/Open Exit.

## Automotive Technology 086

Advanced Clean Air Car Course
Unit(s): 2.0
Class Hours: 32 Lecture total.
This is a Bureau of Automotive Repair certified course. It is designed to provide advanced diagnostic training for smog licensed technicians. This course is required before taking the Smog License Renewal or initial smog exam. Suggested preparation: Automotive Technology 032 or a California Smog License. Grade: Pass/No Pass Only.

## Automotive Technology 087

L-1 Alternative Course: Advanced Engine Performance
Unit(s): 2.0
Class Hours: 32 Lecture total
This course is a Bureau of automotive Repair certified course. It is designed to prepare the student to pass the L-1 Alternative Course Exam. Grade: Pass/ No Pass Only.

## 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 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.
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 nonbiology majors.

Biology 109L
Fundamentals of Biology Laboratory
Unit(s): 1.0
Class Hours: 48 Laboratory total.
Prerequisite: BIOL 109/109H with a mini-
mum 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.
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.

## 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.

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.

## 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.
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.

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.
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

## Biology 133

## Desert Biology

Unit(s): 1.0
Class Hours: 16 Lecture total.
Study of desert organisms, their adaptions to arid conditions, their evolution, identification and ecology, and the impact of human activities on desert organisms, communities and ecosystems. This is a field study course and includes overnight camping.

## Biology 134

Natural History of the Sonoran/Colorado

## Desert

Unit(s): 1.0
Class Hours: 16 Lecture total.
Ecological study of the plants and animals of the Sonoran/Colorado Desert area of Southern California. This is a field study course and includes overnight camping.

## Biology 135

Natural History of the Mojave Desert
Unit(s): 1.0
Class Hours: 16 Lecture total.
Ecological relationships of Mojave Desert plant and animal life will be observed and studied. This is a field study course and includes overnight camping.

## 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.

Biology 149
Human Anatomy and Physiology
Unit(s): 4.0
Class Hours: 48 Lecture, 48 Laboratory total. Human anatomy and physiology stressing the interrelationships between normal structure and function. Designed for students in the allied health sciences, particularly those desiring the two-year RN degree. May not meet requirements for physical education or BSN majors.

## Biology 169

Natural History of the Sierra Nevadas
Unit(s): 1.0-3.0
Class Hours: 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.

## Biology 170

Environmental Challenge 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 Environmental Studies 170.)

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.

## Biology 179

Plants of Orange County
Unit(s): 2.0
Class Hours: 16 Lecture, 48 Laboratory total. Plant identification and the conditions needed for optimum growth of local plants are presented. Focus is on identification and study of native wild plants in natural areas of Orange County, their place and importance to habitat, and their use in landscaping. Field trips are a major part of the course. Guest speakers may be called upon to enhance course content. Intended for biologists, park rangers, docents, native plant gardeners and other plant-lovers.

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 and Science 200.)

## Biology 211

## Cellular and Molecular Biology

Unit(s): 5.0
Class Hours: 48 Lecture, 96 Laboratory total. Prerequisite: Mathematics 080 or 081 with a grade of C or better.

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. Prior completion of Chemistry 119 or 209 or equivalent recommended.

## Biology 212

Animal Diversity and Ecology
Unit(s): 5.0
Class Hours: 48 Lecture, 96 Laboratory total.
Prerequisite: Biology 211 with a grade of C
or better.
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.

## Biology 214

## Plant Diversity and Evolution

Unit(s): 5.0
Class Hours: 48 Lecture, 96 Laboratory total.
Prerequisite: Biology 211 with a grade of C
or better.
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.
Biology 217
Pathophysiology
Unit(s): 2.0
Class Hours: 32 Lecture total.
Prerequisite: Biology 149, 239 or 249.
Covers dynamic aspects of human
disease. Links sciences of anatomy,
physiology and biochemistry with their application to clinical practice for health professionals.

## 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.

Introduction to microorganisms, their classification, structure, biochemistry, growth, control and their interactions with other organisms and the environment. Designed for biology, preprofessional, and prenursing (BSN) majors.

## Biology 239

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 CD-ROM programs. Laboratory includes the dissection of a cat; and periodic demonstrations of a prosected cadaver as available.

## Biology 249

Human Physiology
Unit(s): 4.0
Class Hours: 48 Lecture, 48 Laboratory total.
Prerequisite: Biology 239 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.

## 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.)

## Biology 290

Biochemistry and Molecular Biology
Unit(s): 5.0
Class Hours: 48 Lecture, 96 Laboratory total.
Prerequisite: Biology 211 and Chemistry 209 An introduction to molecular, cellular, developmental and evolutionary biology. Required of majors in Biology, Medicine, Forestry and Agriculture. This course is a prerequisite for Biology 203, General Zoology and Biology 205, General Botany.

## 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.

## BUSINESS (BUS)

Business 080
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
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.

Business 101
Business Law
Unit(s): 3.0
Class Hours: 48 Contact total.
Legal fundamentals important in commerce and personal business transactions. Includes a study of types of law, the courts, torts, contracts, sales and commercial paper.

Business 103
Cooperative Work Experience-Occupational
Education-Occupational
Unit(s): 1.0-16.0
Class Hours: 1200 Contact 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.

## Business 104

Cooperative Work Experience-General

## Education-General

Unit(s): 1.0-16.0
Class Hours: 1200 Lecture total.
Supervised paid or volunteer experience not related to 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.

Business 105
Legal Environment of Business
Unit(s): 3.0
Class Hours: 48 Lecture total.
A study of the courts, torts (including product liability), crimes, contracts, employment, partnerships, corporations, government regulation, and international law.

## 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.

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.

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.

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.

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.

## 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.)

## Business 121

Human Relations \& 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.)

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.

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.

Business 130
Personal Finance
Unit(s): 3.0
Class Hours: 48 Lecture total.
Various aspects of personal financial planning covering family budgeting, investments, housing, insurance, taxation, estate planning, credit and its uses, planning for retirement, installment buying.

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.

## 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.

## 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

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.

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.

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.)

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)

## 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.)

## Business 150

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.

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.

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's credit and assign payment terms.

## 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.

## Business 165

International Trade Finance and Insurance

## Unit(s): 1.0

Class Hours: 16 Lecture total. Borrowing based on specific import/export transactions-documentary banker's 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.

## 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.
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.

## 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 venders and source products. Determine import classification, tariffs and taxes and calculate landed costs to import into the U.S.

## 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.

Business 183
Customs Broker License Class
Unit(s): 3.0
Class Hours: 48 Lecture total.
Learn in-depth knowledge of import regulations, tariff schedules and customs law in order to become a customs broker. Learn the concepts covered in the Treasury Department's customs broker examination.

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 Treasury Department's current customs broker exam.

Business 222
Business Writing
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101 or 101H.
Overview of oral and written communica-
tion 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.

## BUSINESS APPLICATIONS (BA)

Business Applications 016
Computer Office Modules
Unit(s): 0.5-6.0
Class Hours: 192 Laboratory total.
Office training on an individualized basis to include: computer applications (Word, Excel, Access, and PowerPoint), communication skills, office procedures and equipment for entry level office positions, Microsoft Office Specialist practice testing and office simulation. May be repeated for a maximum of 6 units. Grade: Pass/No Pass Only. Open Entry/ Open Exit.
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 034

## Machine Calculation

Unit(s): 1.5
Class Hours: 24 Lecture total.
Instruction in the 10 -key touch system for the calculator and basic business math skills. Students develop skills and concepts for the workplace, gain familiarity with business concepts, and develop speed and accuracy solving typical business math problems.

## 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 036

Data Entry
Unit(s): 1.5
Class Hours: 24 Lecture total.
Instruction in the process of entering alphabetic and numeric data into the computer to produce report formats such as statistical reports, inventories, payroll records and registration forms. Students develop dexterity and accuracy while learning data entry procedures.

## Business Applications 038

Telephone Techniques
Unit(s): 0.5
Class Hours: 8 Lecture total.
Course will provide a solid foundation for students who want training in the professional use of the telephone. Hands on training in handling business calls.

## 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 047
Introduction to the Legal Office
Unit(s): 3.0
Class Hours: 48 Lecture total. Study of the role of the legal office support personnel. Duties of support personnel, investigation, basic law office organization, court system and research fundamentals. Focus on ethics, terminology, interviewing with sensitivity toward the diverse cultural mix of our society.

## 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 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. May be repeated.

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. May be repeated.

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. May be repeated.

Business Applications 059
Court and Business Work Experience for
Interpreters and Translators
Unit(s): 1.0-2.0
Class Hours: 16 Lecture total.
Prerequisite: Business Applications 057 or 058.

An open entry/open exit course in practical interpreter's preparation with work experience designed for interpreters/ translators for government and private businesses. May be repeated. Open Entry/Open Exit.

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 your personal and business contacts, and organize your files.

## Business Applications 101

Cooperative Work Experience Education-

## Occupational

Unit(s): 1.0-4.0
Class Hours: 64 Lecture total.
Supervised paid or volunteer experience in student's major including new or expanded responsibilities. One credit for each 5 hours worked per week to a maximum of 4 units for 20 hours worked per week each semester. Limitation of 16 units in occupational cooperative education courses. Students must be enrolled in a minimum of 7 units including 4 units for Business Applications 101. Grade:
Pass/No Pass Only.
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.

## Business Applications 110B

Computer Keyboarding Skills II
Unit(s): 1.0
Class Hours: 48 Laboratory total.
Prerequisite: Business Applications 110A. 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.

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.

## Business Applications 115B <br> Computer Keyboarding Speed and Accuracy

 Development IIUnit(s): 1.0
Class Hours: 48 Laboratory total.
Prerequisite: Business Applications 115A.
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.

## 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.

## 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.

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.

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.

Business Applications 150
Introduction to Geographic Information

## Systems

Unit(s): 3.0
Class Hours: 48 Lecture 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.

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.

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.

Business Applications 163

## Adobe Acrobat

Unit(s): 3.0
Class Hours: 48 Lecture total. Learn to use Adobe Acrobat to convert any document to a portable format which can be distributed electronically (via disk, modem, intranet, CD-ROM, e-mail, Web or printed publication) allowing anyone to view, search, and print the document perfectly on any computer without using the original program from which the document was created. Create forms that can be submitted over the Internet. Create interactive documents that act like a Web site.

## Business Applications 164

Introduction to Adobe Photoshop

## Unit(s): 3.0

Class Hours: 48 Lecture total.
Students learn how to use the capabilities of Adobe Photoshop, an image editing program, to enhance the creativity and production of desktop projects. Previous class in scanning is advisable.

Business Applications 166
Adobe Illustrator
Unit(s): 3.0
Class Hours: 48 Lecture total. Introduction to Adobe Illustrator, an electronic digital illustration program for creating graphic images for business publications. Learn how to digitally create and print illustrations, logos, and publications.

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.
Business Applications 169
Adobe Dreamweaver
Unit(s): 1.5
Class Hours: 24 Lecture total.
Learn to use Adobe Dreamweaver to create dynamic web sites. The course includes creating tables, forms, layers, style sheets, also inserting dynamic HTML features.

Business Applications 170
Adobe InDesign
Unit(s): 3.0
Class Hours: 48 Lecture total.
An introduction to using Adobe's InDesign desktop publishing software. Learn to use InDesign's powerful production tools for creating publications. Includes basic typography, importing and linking graphics, creating and applying colors, and using tints, and gradients.

Business Applications 173
Adobe Flash
Unit(s): 3.0
Class Hours: 48 Lecture total.
Designed to prepare students in the use of Adobe Flash for web design, including animation, importing sound, interactive action and publishing. Experience with graphics and internet recommended. Knowledge of Adobe Photoshop helpful.

## 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.
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.

## 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.

## Business Applications 179 <br> Introduction to Microsoft Office <br> 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.

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.

## Business Applications 183 <br> 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.

## 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.

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.

## 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.

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.

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.

## 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.

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.
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.

## BUSINESS SEMINAR (BUSM)

Business Seminar 001
Time Management
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to apply various time management techniques to properly allocate your time and energy on the job. Emphasis is on an individual approach to identifying personal time wasters and setting task priorities. Grade: Pass/No Pass Only.

Business Seminar 002
Coping With Negative People
Unit(s): 0.2
Class Hours: 8 Lecture total.
Truly negative people - Negaholics - are addicted to being negative and strive to pass on their negative feelings to everyone around them. This seminar provides a wide variety of coping techniques to maintain a positive attitude, reduce stress, and improve life at work. Grade: Pass/No Pass Only.

## Business Seminar 003

Understanding Personal Workstyles
Unit(s): 0.2
Class Hours: 8 Lecture total.
Understanding differing personal workstyles can influence successful cooperation and productivity. Learn complementary vs. conflicting workstyles, strengths and blindspots of workstyles, and identify and how to analyze your own workstyle. Grade: Pass/No Pass Only.

## Business Seminar 004

Goal Setting on the Job
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to assure the accomplishment of job responsibilities through the understanding of the roadblocks to goal achievement. Includes developing a plan to meet short and long term goals and learning to establish a support system to achieve these goals. Grade: Pass/No Pass Only.

## Business Seminar 005

How to Delegate Effectively
Unit(s): 0.2
Class Hours: 8 Lecture total. How to utilize effective delegation techniques for improving results achieved through others. Includes resistance to delegation, appropriate time to delegate, and the use of delegation to develop employees. Grade: Pass/No Pass Only.

## Business Seminar 006

Improving Employee Performance
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to improve employee performance by analyzing performance problems, setting objectives and goals, and developing successful counseling and motivation techniques. Grade: Pass/No Pass Only.

Business Seminar 007
Preparing for Supervision
Unit(s): 0.2
Class Hours: 8 Lecture total. Techniques on how to prepare for the job of supervisor. Includes a focus on the role of the supervisor, delegation, performance review, communication, handling difficult employees, and how to prepare for the supervisory job interview. Grade: Pass/No Pass Only.

Business Seminar 008
Elements of Supervision
Unit(s): 0.4
Class Hours: 16 Lecture total.
Introduction to management skills for new and existing supervisors. Includes management styles, motivation, human relations, leadership, group dynamics, and communications. Grade: Pass/No Pass Only.

## Business Seminar 009

## Problem Solving and Decision Making

Unit(s): 0.2
Class Hours: 8 Lecture total.
How to solve problems and improve decision making skills through the application of sound problem solving techniques. Designed to help all employees increase their effectiveness in daily operations. Grade: Pass/No Pass Only.

## Business Seminar 010

## Motivating Your Employees

Unit(s): 0.2
Class Hours: 8 Lecture total.
How to maintain a consistent and high level of productivity through the understanding and application of basic motivation theories. The focus is on improving employee job satisfaction through the accomplishment of organizational goals. Grade: Pass/No Pass Only.

## Business Seminar 011

Coaching Your Employees
Unit(s): 0.2
Class Hours: 8 Lecture total.
Techniques for supervisors to help their employees achieve winning outcomes. Includes a coaching vocabulary, an understanding of what coaching is and isn't, and guidelines to determine where coaching fits in the organization. Grade: Pass/No Pass Only.

## Business Seminar 012

Managing Conflict on the Job
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to identify and deal with the many causes of job-related conflict. Emphasis on reducing the negative effects of conflict to improve productivity. Grade: Pass/ No Pass Only.

## Business Seminar 013

Avoiding Burn-Out
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to deal with the effects of job
burn-out: listlessness, fatigue, and loss of interest in the job. Includes the stages of burn-out, coping strategies, and organizational responsibility. Grade: Pass/No Pass Only

## Business Seminar 014

## Situational Leadership

Unit(s): 0.2
Class Hours: 8 Lecture total.
How to increase your effectiveness as a leader by understanding the relationship between leadership and performance improvement. Includes identification of leadership behaviors and the techniques needed to adapt your leadership style to increase employee effectiveness. Grade: Pass/No Pass Only.

Business Seminar 015
Applied Supervision
Unit(s): 0.2
Class Hours: 8 Lecture total.
Application of supervisory principles and management theory to case studies and student's situations on the job. Includes basic problem solving and decision-making techniques, leadership skills, teambuilding techniques, and motivational application. Completion of Elements of Supervision is recommended. Grade: Pass/No Pass Only.

## Business Seminar 016

## Managing Change

Unit(s): 0.2
Class Hours: 8 Lecture total.
How to manage change within an organization's environment, structure, technology, and people. Includes forces that create change, techniques for reducing resistance to change, and coping strategies. Grade: Pass/No Pass Only.

## Business Seminar 017

## Employee Relations for Supervisors

Unit(s): 0.2
Class Hours: 8 Lecture total.
Understanding the rights of employees and the responsibilities of supervisors. The focus is on techniques for preventing employee grievances and complaints, progressive discipline, discrimination issues,
and proper documentation. Grade: Pass/ No Pass Only.
Business Seminar 018
Team Building Skills
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to change a group into a team to increase productivity, efficiency, and effectiveness. Includes the differences between a group and a team, the phases of team building, and the tools required for the process. Grade: Pass/No Pass Only.

Business Seminar 019A
Managing Emotional Intelligence (EQ)

## Unit(s): 0.2

Class Hours: 8 Lecture total.
Emotional intelligence (EQ) is the capacity for self-awareness, self-management, and social awareness, that affects our relationships with others. This seminar focuses on how to improve employee effectiveness and create positive organizational change through the understanding and management of emotions. Grade: Pass/No Pass Only.

Business Seminar 019B
Managing Emotional Intelligence: Self Awareness
Unit(s): 0.2
Class Hours: 8 Lecture total.
This seminar focuses on the personal inquiry segment of emotional intelligence. The goal of this class is for each student to emerge with an enhanced level of self awareness, personal power, and personal responsible. Grade: Pass/No Pass Only.

## Business Seminar 019C <br> Managing Emotional Intelligence: Social

 AwarenessUnit(s): 0.2
Class Hours: 8 Lecture total.
Exploration of our ability to assess and react to various personalities and situations. This seminar explores interaction styles, social personality, and social awareness that will leave students with a stronger functioning ability with various personalities in their day to day interactions. Grade: Pass/No Pass Only.

## Business Seminar 020A

Workplace Boundaries
Unit(s): 0.2
Class Hours: 8 Lecture total.
Understanding how various personalities affect and control us is strongly related to our personal success. This seminar helps one build upon personal strengths, establish personality alignment, and create a safe, respectful and productive environment. Grade: Pass/No Pass Only.

## Business Seminar 020B

Workplace Boundaries: Personal Exploration
Unit(s): 0.2
Class Hours: 8 Lecture total.
Exploring the realities of our own boundary strengths and weaknesses allows us to develop strong yet resilient boundaries that remain functional even through difficult circumstances. This seminar provides an opportunity to explore one spersonal boundaries in a safe, controlled environment. Grade: Pass/No Pass Only.

## Business Seminar 026A

Basic Writing Skills
Unit(s): 0.4
Class Hours: 16 Lecture total.
How to increase the effectiveness of your written communications. Includes message development, building strong sentence structure, and paragraph construction, and writing style. Grade: Pass/ No Pass Only.

## Business Seminar 026B

Advanced Business Writing
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to revise and refine memos, letters, and reports to produce professional final documents that convey the meaning intended. The focus is on the types of documents the students are currently working on in the work environment. Grade: Pass/No Pass Only.

Business Seminar 027
Business Writing for Results
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to write with clarity and conciseness in today's business environment. The focus is on the correct approach to reach your audience, how to determine the correct tone, and how to eliminate clutter from your writing so your message gets the attention and response you want. Grade: Pass/No Pass Only.

## Business Seminar 028

## Building Your Vocabulary

Unit(s): 0.4
Class Hours: 16 Lecture total.
How to improve your communication skills by improving your vocabulary. Includes methods for learning and retaining new words and strategies for applying your new vocabulary to organizational communications. Grade: Pass/No Pass Only.

## Business Seminar 029

Grammar and Punctuation Skills
Unit(s): 0.4
Class Hours: 16 Lecture total.
How to recognize and apply the basic principles of grammar and punctuation to improve your business writing skills. Includes sentence structure and the proper use of numbers. Grade: Pass/No Pass Only.
Business Seminar 030
Effective Communications
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to improve your oral communications skills. Includes practical guidelines for getting useful feedback, avoiding verbal blocks, identifying nonverbal messages, listening effectively, and discovering hidden agendas. Grade: Pass/No Pass Only.

Business Seminar 031A

## Learning to Listen

Unit(s): 0.2
Class Hours: 8 Lecture total.
How to apply listening techniques to improve your communication skills. Includes major blocks to listening, paraphrasing skills, body language, feedback, and identifying hidden messages. Grade: Pass/No Pass Only.

Business Seminar 031B
Learning to Listen: Practice Application
Unit(s): 0.2
Class Hours: 8 Lecture total.
This seminar provides an intensive listening format and is structured to give the student the opportunity to learn and enhance skills in hearing specific elements of verbal communication, tapping into intention, reading non-verbals, and reacting to various conversational styles and scenarios. Grade: Pass/No Pass Only.

Business Seminar 032
Presentation Skills
Unit(s): 0.4
Class Hours: 16 Lecture total. How to prepare and deliver professional presentations. Includes audience analysis, purpose, introduction, body, conclusions, building self-confidence, and body language techniques. Grade: Pass/No Pass Only.

Business Seminar 033
Overcoming Speech Fright
Unit(s): 0.4
Class Hours: 16 Lecture total.
How to overcome anxieties that may occur when making various types of presentations. Learn the causes of speech fright, cognitive restructuring, systematic desensitization, and techniques to reduce speech fright. Grade: Pass/No Pass Only.

Business Seminar 034
Interviewing Techniques
Unit(s): 0.4
Class Hours: 16 Lecture total.
How to apply the techniques used in the selection and counseling of employees for various types of interviewing situations. Includes planning and organizing an interview, gathering and exchanging information, using open and closed-ended questions, and evaluating the results. Grade: Pass/No Pass Only.

## Business Seminar 035

Negotiation Techniques
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to apply the fundamentals of negotiating techniques to achieve your objectives. Includes preparation for negotiation; building leverage; developing a suitable climate; strategies, tactics and countermoves; and the application of nonverbal communication. Grade: Pass/ No Pass Only.

Business Seminar 036
Cross-Cultural Communication
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to work effectively in a multicultural environment. Includes techniques for communicating cross culturally, strategies for retrieving and interpreting information, and three elements of culture that influence decisions and problem resolution. Grade: Pass/No Pass Only.

Business Seminar 037
Dealing Successfully With the Public And
Customers
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to deal with the public and customers to effectively solve their problems and create positive relationships. Includes learning to establish rapport, how to control sensitive situations, listening techniques, and problem solving. Grade: Pass/No Pass Only.

Business Seminar 038
Creativity and Brainstorming
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to solve problems through the effective use of sharing ideas and information. Includes a wide variety of ways to harness creativity to find and implement new solutions and options for job related problems. Grade: Pass/No Pass Only.

Business Seminar 039
Interpersonal Relationships in the Office
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to understand and deal with the variety of interpersonal behaviors within an office environment. Includes methods for dealing with others who have different backgrounds, personalities, temperaments, values, and needs. Grade: Pass/No Pass Only.

Business Seminar 040
The Effective Use of E-Mail
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to use the ten key essential elements of effective e-mail to get message across. Included in this skill-building seminar will be how to: grab your reader's attention, add visual punch to your e-mail, determine the right tone for your message, remove unnecessary clutter and recognize the pitfalls of emotions. Grade: Pass/No Pass Only.

Business Seminar 041
Workplace Morale
Unit(s): 0.2
Class Hours: 8 Lecture total.
Positive interaction with other employees as well as pride in work is vital to productivity and the emotional health of each employee. This seminar dissects the various aspects of morale with a focus on personalities, mood, negotiation skills, developing communication abilities, and stress reduction techniques. Grade: Pass/ No Pass Only.

## Business Seminar 042

## Facilitation Skills

Unit(s): 0.4
Class Hours: 16 Lecture total.
Learn how to facilitate meetings and discussion groups in an interactive manner with any group of highly diverse individuals. The use of questioning techniques, dealing with difficult people at meetings, the use of films and other mediums and creating an adult learning environment will be explored. Grade: Pass/No Pass Only.

Business Seminar 046
Stress Reduction Techniques
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to apply coping mechanisms, relaxation techniques, and self-assessment skills to manage stress that impacts productivity on the job and in personal lives. Grade: Pass/No Pass Only.

## Business Seminar 047A

## Memory Skills

Unit(s): 0.2
Class Hours: 8 Lecture total.
How to apply techniques for improving memory and concentration. Includes concentration techniques, effective study methods, proper listening habits, and abstract idea interpretation. Grade: Pass/ No Pass Only.

## Business Seminar 047B

Memory Skills: Practical Application
Exploration
Unit(s): 0.2
Class Hours: 8 Lecture total.
This seminar provides in class memory capacity development. The students will experiment and implement various tricks and techniques while developing and personalizing the techniques best suited to their purposes. Grade: Pass/No Pass Only.

Business Seminar 048
Assertion Training
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to communicate clearly and concisely without being overly aggressive or shy. Includes individual behavior patterns and assertive techniques with emphasis on how to ask for what you want and how to say no without feeling guilty. Grade: Pass/No Pass Only.

## Business Seminar 049 <br> Bldg Interpersonal Skills <br> Unit(s): 0.2 <br> Class Hours: 8 Lecture total

=Building Interpersonal Skills interpersonal relationships. Includes work/ personality styles, self-analysis, assertion techniques, establishing credibility, and coping with anger. Grade: Pass/No Pass Only.

## Business Seminar 050

Overcoming Procrastination
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to overcome the tendency to put off tasks that should be done now. Includes reasons why people procrastinate, task sequencing techniques, and the steps to follow to overcome the problem. Grade: Pass/No Pass Only.

## Business Seminar 051

Personal and Financial Success
Unit(s): 0.2
Class Hours: 8 Lecture total.
The fundamentals of how to achieve personal and financial success. Includes a
"how to" approach assisting participants in understanding terminology and various processes to improve the quality of life now and the future. Grade: Pass/No Pass Only.

## Business Seminar 052

Getting the Life and Job Satisfaction You

## Want

Unit(s): 0.4
Class Hours: 8 Lecture total.
How to explore the positive results of reducing stress, raise self-esteem, turn conflict into cooperation, and free the mind to create. Includes relaxation exercises, how to avoid burnout in daily activities, maintain a proactive attitude, and replacing destructive stress. Grade: Pass/No Pass Only.

## Business Seminar 060

## Proofreading Skills

Unit(s): 0.2
Class Hours: 8 Lecture total. How to apply effective proofreading techniques to improve the accuracy of written communications. Emphasis on identifying and correcting errors which frequently occur in business communications. Grade: Pass/No Pass Only.

Business Seminar 062
Organizing Files and Records
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to plan and implement systems for efficient filing and retrieval of documents. Includes techniques for improving organization, maintaining control, and eliminating redundancy in files and records. Grade: Pass/No Pass Only.

## Business Seminar 065B

## Word - Intermediate

Unit(s): 0.2
Class Hours: 8 Lecture total.
How to perform basic procedures for document and paragraph formatting in Microsoft Word. Includes headers and footers, columns, tables, macros, and merge. Grade: Pass/No Pass Only.

## Business Seminar 065C

## Word - Advanced

Unit(s): 0.2
Class Hours: 8 Lecture total.
How to perform advanced procedures in graphics, charts, newsletters and job related tasks using all components of Microsoft Word. Grade: Pass/No Pass Only.

Business Seminar 066A
Excel-Beginning
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to create worksheets using Microsoft Excel. Includes entering data, formulas, formatting, and creating charts. Grade: Pass/No Pass Only.

Business Seminar 066B
Excel - Intermediate
Unit(s): 0.2
Class Hours: 8 Lecture total. Additional topics for students familiar with the basics of Excel. Includes advanced formatting, templates, database applications, sharing between applications. Grade: Pass/No Pass Only.

## Business Seminar 066C

Excel - Advanced
Unit(s): 0.2
Class Hours: 8 Lecture total.
Advanced procedures utilizing all Excel features including database, macros, scenarios and job related tasks. Grade: Pass/ No Pass Only.

## Business Seminar 067A

Access - Beginning
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to create a database using Microsoft Access. Includes data entry basics, form design, queries, and report generation. Grade: Pass/No Pass Only.

Business Seminar 067B
Access - Intermediate
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to use Database Wizards, export data to Word and Excel, perform queries, and filter records in a database file. Grade: Pass/No Pass Only.

Business Seminar 067C
Access - Advanced
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to perform the advanced features of Microsoft Access. Includes database relationships, advanced forms, reports, graphing and macros. Grade: Pass/No Pass Only.

Business Seminar 068A
Powerpoint-Beginning
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to develop a basic presentation using Microsoft PowerPoint. Includes design templates, adding graphics, developing note pages, slides, and transparencies. Grade: Pass/No Pass Only.

Business Seminar 068B
Powerpoint - Intermediate
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to enhance your PowerPoint presentations. Includes time saving techniques, customizing slide layouts, developing charts, and using drawing tools. Grade: Pass/No Pass Only.

## Business Seminar 068C

Powerpoint - Advanced
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to apply advanced procedures to your PowerPoint presentations. Includes creating charts, handouts and note pages, embedding/linking objects, redesigning templates and slide show options. Grade: Pass/No Pass Only.

Business Seminar 069A
Outlook - Beginning
Unit(s): 0.2
Class Hours: 8 Lecture total. How to send and receive e-mail messages, use the Calendar to keep track of schedules, use the Contacts list to manage addresses, use the Task list to manage To-Do's, and use the Journal to keep a log of important activities. Grade: Pass/No Pass Only.

## Business Seminar 069B

Outlook - Advance
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to use the advanced features of Microsoft Outlook. Includes the "out-of-office" assistant, adding signatures, formatting messages, organizing folders, automatically manage, sort, and delete e-mail messages, and how to use Outlook with other programs. Grade: Pass/No Pass Only.

## Business Seminar 070A

Ms Publisher - Beginning
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to create brochures, flyers and newsletters using Microsoft Publisher. Includes an introduction layout, font types, image and text formats and the use of color. Grade: Pass/No Pass Only.

## Business Seminar 070B

Ms Publisher - Intermediate
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to use MS Publisher to efficiently create more elaborate publications. The skills covered will include: using templates, facing pages, master pages, and working with multiple columns. Grade: Pass/No Pass Only.

Business Seminar 070C
Ms Publisher - Advanced
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to use MS Publisher to create publications utilizing advanced features and tools. The skills covered will include: merging databases with publications, utilizing tables, creating forms, and creating web pages. Grade: Pass/No Pass Only.

## Business Seminar 071A

Visio - Beginning
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to use Microsoft Visio to visually communicate information concepts, procedures, business processes, product information, and more through the use of flowcharts, charts, and diagrams. Grade: Pass/No Pass Only.

Business Seminar 071B
Visio - Intermediate
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to use the more advanced features of MS Visio to create and use flowcharts and diagrams for professional communication. Includes working with shapes, creation of timelines, Gantt charts, working with layers, making graphs, and creating reports. Grade: Pass/No Pass Only.

Business Seminar 072
Introduction to Windows XP
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to use the features of the Windows XP operating system. Includes the user interface, customizing the desktop, window manipulation, creating users, file transfers, setting and using "restore" points, directory structure, and disk formatting. Grade: Pass/No Pass Only.

## Business Seminar 073A

## Adobe Acrobat Basics

Unit(s): 0.2
Class Hours: 8 Lecture total.
How to use Adobe Acrobat to create, edit, and convert files and forms for reliable electronic document exchange around the office, over the web, or by email using Adobe Portable Document Format (PDF). Grade: Pass/No Pass Only

## Business Seminar 074A

Adobe Photoshop - Beginning
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to use Adobe Photopshop to retouch and repair photographs for use in the print and web environment. Includes topics on: the Photoshop work area, tool usage, layers, cropping and straightening photos, sharpening techniques, fixing exposure mistakes, and removing red-eye. Grade: Pass/No Pass Only.

Business Seminar 074B
Adobe Photoshop - Intermediate
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to use Adobe Photoshop to correct digital camera and scanned image problems. Includes topics on: color correction, adjusting flesh tones, converting color photos to black \& white, extracting people from the background, retouching portraits by reducing freckles, wrinkles,
removing blemishes, dark circles under the eyes and whitening teeth. Grade:
Pass/No Pass Only.
Business Seminar 074C
Adobe Photoshop - Advanced
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to use advanced features of Adobe Photoshop to retouch and repair photographs for use in the print and web environment. Includes topics on: repairing scanned photos by removing specks, dust \& scratches; restoration of old photos, colorizing Black \& White photos, creating photo montages, and preparing photos for various types of output. Grade: Pass/ No Pass Only.

## Business Seminar 075A

Web Page Development - Beginning
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to develop basic web pages using Microsoft FrontPage. Includes using toolbars, templates, design techniques, links, and HTML basics. Grade: Pass/No Pass Only.
Business Seminar 075B
Web Page Development - Intermediate
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to enhance your web pages using Microsoft FrontPage. Includes techniques to make a web site more dynamic, interactive, and user friendly. Grade: Pass/No Pass Only.
Business Seminar 076
Fundamentals of Geographic Information Systems (GIS)
Unit(s): 0.2
Class Hours: 8 Lecture total.
An introduction to the concepts and uses of Geographical Information Systems. Topics include the GIS history, applications, data structures and sources, tools, software, and resources. Grade: Pass/No Pass Only.
Business Seminar 078A
Word-Beginning
Unit(s): 0.2
Class Hours: 8 Lecture total.
Learn the basics of MS Word including: parts of the Word screen, keying text, editing, saving, printing, formatting, themes, clipboard, finding, page setup, envelopes and creating labels. Grade: Pass/No Pass Only.

## Business Seminar 079A

Access-Beginning
Unit(s): 0.2
Class Hours: 8 Lecture total.
Learn database basics in Access including the structure and components of Access: tabs, ribbons, groups, major objects, queries, forms, filters, creating a database, primary key fields and managing Access files. Grade: Pass/No Pass Only.

## Business Seminar 079B

Access-Intermediate
Unit(s): 0.2
Class Hours: 8 Lecture total.
Designing and managing database objects; data integrity, designing queries, adding and modifying forms, adding and modifying reports. Grade: Pass/No Pass Only.

Business Seminar 080A
Excel-Beginning
Unit(s): 0.2
Class Hours: 8 Lecture total.
This course is an introduction to Excel and its visual interface. Students will learn to create worksheets, enter data, utilize simple formulas and functions, format data and cells, how to save excel workbooks, and printing. Grade: Pass/No Pass Only.

Business Seminar 081A
Powerpoint-Beginning
Unit(s): 0.2
Class Hours: 8 Lecture total.
Learn how to navigate this new user interface and the basics of this powerful presentation package including: creating presentations from design templates, adding graphics and developing note pages and handouts, and running a timed onscreen show. Grade: Pass/No Pass Only.

## Business Seminar 082A

Outlook-Beginning
Unit(s): 0.2
Class Hours: 8 Lecture total.
Learn how to send and receive e-mail messages in this new user interface and the basics of this format including: how to use the calendar, the contacts list, the task list, and the journal. Grade: Pass/No Pass Only.

## 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. May be repeated.

Chemistry 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 Physical Science 115)

## Chemistry 119

## Fundamentals - General and Organic

Unit(s): 5.0
Class Hours: 64 Lecture, 48 Laboratory total.
Prerequisite: Mathematics 060 or 061 .
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.

## Chemistry 209

Introductory Chemistry
Unit(s): 4.0
Class Hours: 48 Lecture, 48 Laboratory total. Prerequisite: Mathematics 080 or 081 with a grade of C or better.

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.

Chemistry 210
General, Organic and Biochemistry
Unit(s): 5.0
Class Hours: 64 Lecture, 48 Laboratory total. Prerequisite: Chemistry 209 with a grade of C or better OR passing grade on current chemistry placement exam and Mathematics 080 or 081 with grade of C or better

An introduction to the fundamental concepts of general, organic and biochemistry for majors in nursing and other allied health majors. Includes atomic structure, nuclear chemistry, bonding, solutions, acids and bases,organic nomenclature,hydrocarbons, alcohol, aldehydes, ketones, carboxylic acids, carbohydrates, proteins, lipids, nucleic acids and metabolism.

## Chemistry 219

General Chemistry
Unit(s): 5.0
Class Hours: 48 Lecture, 96 Laboratory total. Prerequisite: Mathematics 080 or 081 and Chemistry 209 or Mathematics 080 or 081 and a passing score on current chemistry placement test. All courses must be completed with a grade of C or better. 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.

## Chemistry 219H

## Honors General Chemistry

Unit(s): 5.0
Class Hours: 48 Lecture, 96 Laboratory total. Prerequisite: Mathematics 080 or 081 and Chemistry 209 or Mathematics 080 or 081 and a passing score on current chemistry placement test. All courses must be completed with a grade of C or better. 3.0 cummulative GPA. 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.

Chemistry 229
General Chemistry and Qualitative Analysis Unit(s): 5.0
Class Hours: 48 Lecture, 96 Laboratory total. Prerequisite: Chemistry 219 with a grade of C or higher.

Continuation of Chemistry 219, including but not limited to ionic equilibrium, acid and base equilibrium, thermodynamics, electrochemistry, nuclear chemistry, organic chemistry and descriptive chemistry.

## Chemistry 249

Organic Chemistry I
Unit(s): 5.0
Class Hours: 48 Lecture, 96 Laboratory total. Prerequisite: Chemistry 229 with a grade of C or better.

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.

## Chemistry 259

Organic Chemistry II
Unit(s): 5.0
Class Hours: 48 Lecture, 96 Laboratory total. Prerequisite: Chemistry 249 with a grade of C or better.

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.

## 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.

## 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 Chinesespeaking societies.

Chinese 102
Elementary Chinese II
Unit(s): 5.0
Class Hours: 80 Lecture total.
Prerequisite: Chinese 101 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.

## COMMUNICATION STUDIES (CMST)

Communication Studies N49
Introduction to Academic Speaking Skills
Unit(s): 3.0
Class Hours: 48 Lecture, 16 Laboratory 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 N50
Pronunciation Skills Laboratory
Unit(s): 1.0
Class Hours: 48 Laboratory total.
Sign-in/out listening and speaking practice in a lab setting. Utilizes pronunciation and vocabulary/conversational material. 48 hours earns 1 unit. Not applicable to associate degree. Grade: Pass/No Pass Only. Open Entry/Open Exit.

## Communication Studies N52A

## Beginning American English Pronunciation

 SkillsUnit(s): 3.0
Class Hours: 48 Lecture, 16 Laboratory total. Prerequisite: English for Multilingual Students 055 .

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, 16 Laboratory total. Prerequisite: Communication Studies N52A. More extensive instruction in American English sounds. Emphasis on more difficult sounds, sound blends, word endings, syllable and word stress. Not applicable to associate degree. Grade: Pass/No Pass Only.

Communication Studies N53
Advanced American English Pronunciation Skills
Unit(s): 3.0
Class Hours: 48 Lecture, 16 Laboratory total.
Prerequisite: EMLS 107 and Communication Studies N52B.

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, 16 Laboratory total.
Prerequisite: Concurrent enrollment in EMLS
055 or 107 , or 109 , or 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, 4 Laboratory total.
Prerequisite: Communication Studies N52A. 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, 16 Laboratory 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, 16 Laboratory total.
Prerequisite: Communication Studies N52B or concurrent enrollment; English for Multilingual Students 107 or higher.

Intensive, advanced conversational practice of American English. The course emphasizes oral competency in key American social, academic and business encounters and communication techniques. Laboratory hours are required. Preparation for Communication Studies 101 or 101 H . Designed for non-native speakers.

Communication Studies 101
Introduction to Interpersonal Communication Unit(s): 3.0
Class Hours: 48 Lecture total.
Introduction to communication theory, listening, perception, language usage, non-verbal communication, and conflict management. Recommended for students who have completed or are currently enrolled in English 101.

## Communication Studies 101H

Honors Introduction to Interpersonal

## Communication

Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: A high school or college GPA of 3.0 or above.

Introduction to communication theory, listening, perception, language usage, non-verbal communication and conflict management. An enriched approach designed for honors students. Seminar mode stresses the development of analytical thinking, writing, and speaking skills. Completion or concurrent enrollment in English 101 recommended.

## Communication Studies 102

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.

## Communication Studies 103

Introduction to Intercultural Communication
Unit(s): 3.0
Class Hours: 48 Lecture total.
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. Communication Studies 097 recommended for non-native speakers.

## Communication Studies 103H <br> Honors Introduction to Intercultural

## Communication

Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: A 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.

## Communication Studies 104

## Listening

Unit(s): 1.5
Class Hours: 24 Lecture total.
Prerequisite: Communication Studies 097. For students wanting to assess and improve their current listening/responding capabilities. Emphasizes appropriate application of diverse listening skills.

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.

Communication Studies 140

## Argumentation and Debate

Unit(s): 3.0
Class Hours: 48 Lecture total.
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. Completion of or concurrent enrollment in English 101 recommended. Communication Studies 097 recommended for non-native speakers.

## Communication Studies 145 <br> Group Dynamics

Unit(s): 3.0
Class Hours: 48 Lecture total.
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. Communication Studies 097 recommended for non-native speakers.

Communication Studies 151
Voice and Diction for Effective

## Communication

Unit(s): 3.0
Class Hours: 48 Lecture total.
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. Communication Studies 097 recommended for non-native speakers.

Communication Studies 152
Oral Interpretation
Unit(s): 3.0
Class Hours: 48 Lecture total.
Oral presentation of prose and poetry; practice in speaking, interpretation, and analysis of literature, with training in the principles of effective delivery. Communication Studies 097 recommended for non-native speakers. Not offered every semester.

## 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.

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 speechproducing 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.

Communication Studies 206
Gender Communication
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Grade of C or better in a Communication Studies course numbered 101 or higher.

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.

## Communication Studies 206H

Honors Gender Communication
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: A high school or college GPA of 3.0 or above and a grade of C or better in a Communication Studies course numbered 101 or higher.

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.

## 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.

Communications \& Media Studies 103
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.

## Communications \& Media Studies 110

Introduction to Creative Nonfiction
Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: English 101, 101H or Communications and Media Studies 121 with a grade of C or better.

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.

## 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.

Communications \& Media Studies 121 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.

## Communications \& Media Studies 122

Editing for Print and Digital Media
Unit(s): 3.0
Class Hours: 48 Lecture total.
Introduction to editing for print and digital media. Course emphasizes Associated Press Style, syntax, grammar, copy editing and headline writing.

## Communications \& Media Studies 123A

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.

Communications \& Media Studies 123B
Intermediate News Media Production
Unit(s): 4.0
Class Hours: 64 Lecture, 160 Laboratory total. An intermediate level production-based course designed around a functioning media organization, providing students practical training in print, digital and web-based media through work as members of the campus news magazine el Don and its website eldonnews.org. Students utilize a digital laboratory to gain practical experience in a variety of disciplines, including writing, editing, design, photography, audio, visual, multimedia and emerging technologies. Completion of CMSD 123A is required. Arranged laboratory hours (TBA) 10 hours per week.

## Communications \& Media Studies 123C

Advanced Intermediate News Media

## Production

Unit(s): 4.0
Class Hours: 64 Lecture, 160 Laboratory total.
Prerequisite: CMSD 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 CMSD 123B required. Arranged laboratory hours (TBA) 10 per week

## Communications \& Media Studies 123D

## Advanced News Media Production

Unit(s): 4.0
Class Hours: 64 Lecture, 160 Laboratory total.
Prerequisite: CMSD 123C with a minimum grade of C

An advanced level production-based course designed around a functioning media organization, providing students practical training in print, digital and web-based media through work as members of the campus news magazine el Don and its website eldonnews.org. Students utilize a digital laboratory to gain practical experience in a variety of disciplines, including writing, editing, design, photography, audio, visual, multimedia and emerging technologies. Completion of CMSD 123C required. Arranged laboratory hours (TBA) 10 per week.

Communications \& Media Studies 124
Magazine Writing for Print and Digital Media Unit(s): 3.0
Class Hours: 48 Lecture, 80 Laboratory total. A comprehensive course in magazine writing and production. Emphasizes a variety of conceptual, research, and nonfictional prose writing styles. Examines trends in editing, layout and design. Students write, edit, design and produce campus magazine. English 101 or Communications \& Media Studies 121 recommended. May be repeated.

Communications \& Media Studies 125

## Media Editing Workshop

Unit(s): 1.5
Class Hours: 24 Lecture total.
Explores the field of media management. Emphasizes professional standards, media law and editorial techniques. Introduces fundamental editing and leadership skills for various forms of media including print and digital communications. May be repeated.

## Communications \& Media Studies 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.

## 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. May be repeated.

## Communications \& Media Studies 210

Intermediate Reporting and Newswriting
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: CMSD 121 with a minimum grade of C

This course is a continuation of Introduction to Newswriting and Reporting, and focuses on coverage of public affairs reporting, including local and regional government, police, courts, school, and city boards. It includes both on- and off-campus reporting and writing, stressing news presentation for a variety of media purposes through multiple platforms.

## Communications \& Media Studies 222

Writing Across Media
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101, 101H or Communications and Media Studies 121 with a grade of C or better.

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.

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.

Communications \& Media Studies 298B Intermediate Designing for Print and Digital Media
Unit(s): 3.0
Class Hours: 48 Lecture, 48 Laboratory total.
Prerequisite: Completion of CMSD 298A
with a grade of C or better 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 CMSD 298A is required.

## 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 todays information society. Examines a broad overview of topics including: hardware, software, networking, information technology, and the Internet. The student will explore the implication and effect of technology on society, careers and ethics.

Computer Science 104
Cooperative Work Experience Education-

## Occupational

Unit(s): 1.0-16.0
Class Hours: 1200 Contact 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.
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.

## Computer Science 112

## Java Programming

Unit(s): 3.0
Class Hours: 48 Lecture total.
Study of the Java language, its features and applications.

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 program-
ming and Web Programming.
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.
Computer Science 120
Introduction to Programming
Unit(s): 3.0
Class Hours: 48 Lecture, 16 Laboratory total.
Prerequisite: Mathematics 080 or 081.
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.
Computer Science 121
Programming Concepts
Unit(s): 3.0
Class Hours: 48 Lecture, 16 Laboratory total.
Prerequisite: Computer Science 120.
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.

## Computer Science 124A <br> MCDST Preparation

Unit(s): 3.0
Class Hours: 48 Lecture total.
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. Recommended preparation: Computer Science 100.

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.
Computer Science 129
Introduction to Computer Organization
(Formerly: Computer Science 111)
Unit(s): 4.0
Class Hours: 64 Lecture total.
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.

## Computer Science 131 <br> Data Structures Concepts

Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Computer Science 121. 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.

## Computer Science 134B

Windows Vista Operating System
Unit(s): 3.0
Class Hours: 48 Lecture total.
Windows Vista Operating System
(Business and Enterprise). Course Topics
include: Installation and Configuration,
Application Installation and
Management, Hardware Configurations, File and Information Management, Security, Managing User Accounts,
Networking, Digital Media, System Maintenance and Management, Desk Top
Management and Configuration.

## Computer Science 134C

Microsoft Windows 7 Operating System
Unit(s): 3.0
Class Hours: 48 Lecture total.
Microsoft Windows 7 Operating System.
Course topics include: Installation, Configuration, Application Installation
and Management, Hardware
Configurations, File and Information
Management, Security, Managing
User Accounts, Networking, Digital
Media, System Maintenance and
Management, Desk Top Management and Configuration.

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.

## Computer Science 135

Software Deployment Mechanisms
Unit(s): 1.5
Class Hours: 24 Lecture total.
Computer software deployment strategies
in large computer systems.

## 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. You will learn about simple file-sharing networks, wireless networks, and more advanced networking technologies that connect multiple machines and devices. You will be able to choose the networking solution that is best suited to your needs.

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.

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.

Computer Science 140
Discrete Structures for Computer Science Unit(s): 3.0
Class Hours: 48 Lecture total.
Course presents the fundamentals of discrete mathematics as appplied to the computer sciences. Topics include Sets, Relations, Functions, Basic Logic, Proof Techniques, Counting, Graphs, Trees and Probability. Recommended preparation College Algebra.
Computer Science 141
Unix Operating System
Unit(s): 3.0
Class Hours: 48 Lecture total.
Introduction to computer operations using the UNIX and Linux operating systems. Includes the file system, shell programming and filters. Recommended preparation: Computer Science 121.

Computer Science 142
Advanced Unix
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Computer Science 141. This advanced UNIX/Linux class will have a shell script component and a system administration component. Shell scripting will cover complex commands and programming constructs. Administration will cover system installation/configuration/maintenance and network servers.

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.

## 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.

## 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.

## 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.

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.

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.

## 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.

## Computer Science 205

Advanced Visual Basic
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Computer Science 105.
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.

## Computer Science 206

Visual Basic for Web Development
Unit(s): 3.0
Class Hours: 48 Lecture total.
Web Development using the Visual Basic programming language. Students will use Visual Basic and ASP to develop Internet applications including Web browsers and databases. Completion of Computer Science 205 is recommended.

Computer Science 207A
Introduction to Business Intelligence
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Students must be familliar with basic Data Base and Spread Sheet software. Recommended course work would include courses in Access and Excel or the Busniess 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 MicroStategy

## Computer Science 207B

Business Intelligence and Data Warehouse

## Architecture

Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: CMPR 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.

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.

## 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.

Computer Science 243
UNIX System Programming
Unit(s): 3.0
Class Hours: 48 Lecture total.
Study of UNIX Systems Programming.
UNIX C libraries, development tools,
spawning processes, inter-process communication, programming with sockets.
Completion of Computer Science 121
and 141 is recommended.

## Computer Science 244

Microsoft Exchange Server
Unit(s): 3.0
Class Hours: 48 Lecture total.
Microsoft Exchange Server - Migration and Deployment, Server Administration and Client Administration. Previous knowledge of Microsoft Server and networking technologies is desirable.

## Computer Science 247B

Windows Server 2008
Unit(s): 3.0
Class Hours: 48 Lecture total.
Installation, management and configuration of Windows Server 2008 for managing network environments. Recommended preparation: Knowledge of any client-level Windows operating system (e.g., XP, Vista).

Computer Science 247C
Windows Small Business Server (SBS) 2011 -
Standard
Unit(s): 3.0
Class Hours: 48 Lecture total.
Installation, management and configuration of Windows Small Business Server (SBS) 2011 for managing small business (25-75 Clients) network environments.
Recommended preparation: Knowledge of any client-level Windows operating system (e.g., Windows 7)
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).

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.

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).

## COUNSELING (CNSL)

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 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.

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.

## 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.
Counseling 107
The Freshman Experience
Unit(s): 3.0
Class Hours: 48 Lecture total.
Integration of educational, socioeconomic 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.
Counseling 110
University Transfer Research
Unit(s): 0.5-2.0
Class Hours: 64 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.

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.

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 Human Development 114.)

## 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, career and life plans.

## 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.

## 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.

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.

## 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.

## 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. (Same as Philosophy 144.)

## 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.

## 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.

## CRIMINAL JUSTICE (CJ)

## Criminal Justice 048

Writing Skills for Criminal Justice Personnel
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English N60.
To develop practical, precise report writing techniques as well as general writing skills applicable to law enforcement and corrections.

## Criminal Justice 101

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.

## 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.

## Criminal Justice 103

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.

## 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. Full background check required.

## Criminal Justice 105

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.

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.

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.)

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.
Criminal Justice 109
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.

## 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.

## Criminal Justice 111A

Volunteer Internship Academy
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Full Background Check
Required.
Students will gain an in-depth understanding of the Orange County Probation Department and the possibilities of a career with that agency or in a related field. (Background check required).

## Criminal Justice 111B

Supervised Internship Work Experience Unit(s): 2.0
Class Hours: 120 Laboratory total.
Prerequisite: CJ 111A with a minimum grade of C

Students will be required to work under supervision of The Orange County Probation Department. Grade: Pass/No Pass Only.

## Criminal Justice 205

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.
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, Old Soviet Union, Haiti, Cayman Islands and Caribbean.

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. May be repeated.

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.

## CRIMINAL JUSTICE ACADEMIES (CJA)

Criminal Justice Academies 006A
Dispatch and Records Functions
Unit(s): 0.1-0.8
Class Hours: 4-40 Laboratory total. Students will be trained in advanced dispatch and records issues: Computer hardware and software, liability, legal update and dealing with difficult callers. Legally/State mandated training. Grade: Pass/No Pass Only.

Criminal Justice Academies 006B
Arrest and Control Traning/ACT
Unit(s): 0.1-0.5
Class Hours: 4-24 Laboratory total.
Prerequisite: California POST Certified
Peace Officer.
This is an advanced course using POST approved ACT skills training. This course meets POST perishable skills requirements. Legally/State Mandated Training. Grade: Pass/No Pass Only.
Criminal Justice Academies 007A
Gangs, Cults \& Hate Crimes
Unit(s): 0.1-0.8
Class Hours: 4-40 Laboratory total.
Prerequisite: California POST Certified
Peace Officer.
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 approved. Legally/State Mandated Training. 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.
POST Approved. May be repeated.
Grade: Pass/No Pass Only.
Criminal Justice Academies 008B
Corrections Supplemental Core Course
Unit(s): 2.0
Class Hours: 96 Laboratory total.
Prerequisite: Successfully completed a basic
P.O.S.T. police academy

This training meets the Standards and
Training for Corrections entry-level personnel working in adult corrections after completion of a P.O.S.T. Basic Academy. Grade: Pass/No Pass Only.

Criminal Justice Academies 009B
Fitness for Law Enforcement
Unit(s): 0.1-0.3
Class Hours: 4-16 Laboratory total.
Training designed specifically for law enforcement and those with an interest in entering law enforcement. Grade: Pass/ No Pass Only. Open Entry/Open Exit

## Criminal Justice Academies 009C

Narcotics Related Training
Unit(s): 0.1-0.5
Class Hours: 4-24 Laboratory total.
Prerequisite: California POST 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 POST approved state mandated training. Grade: Pass/No Pass Only.

Criminal Justice Academies 010 Pre-Employment Preparation for Law Enforcement
Unit(s): 1.0
Class Hours: 48 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: 4-40 Laboratory total.
Prerequisite: California POST 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 010C
Explorer Academy (OCLEEAA)
Unit(s): 0.6-1.0
Class Hours: 32-48 Laboratory total This course is designed to prepare Law Enforcement Explorers for volunteer work in their respective agency. It will include report writing, ethics, criminal law, communications, tactics and close order drill. May be repeated. Grade: Pass/No Pass Only.

Criminal Justice Academies 010D
Explorer Training Academy
Unit(s): 0.8-2.2
Class Hours: 40-108 Laboratory total.
Prerequisite: Must be sponsored by law
enforcement agency.
This course will prepare and update law enforcement explorers for volunteer work at their respective agencies. Grade: Pass/No Pass Only.

Criminal Justice Academies 021
P.C. 832, Laws of Arrest

Unit(s): 0.8
Class Hours: 40 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. The course is 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 screening

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's. May be repeated. Grade: Pass/No Pass Only.

Criminal Justice Academies 026A
Training Academy Preparation
Unit(s): 0.1-0.3
Class Hours: 8-16 Laboratory total
This course is designed to prepare the student for the Basic Law Enforcement Academy, CJA 100A. 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 Laboratory total.
Prerequisite: California POST Certified
Peace Officer.
Training will provide updates on explosive devices: New technology, trends and intelligence information. Legally/State Mandated Training. Grade: Pass/No Pass Only.

Criminal Justice Academies 033B
Explorer Academy
Unit(s): 1.0
Class Hours: 40 Laboratory total.
Prerequisite: Students must pass DOJ Lives-
can screening
This course is designed to prepare Law Enforcement Explorers for volunteer work in their respective agency. It will include report writing, ethics, criminal law, communications, tactics and close order drill. May be repeated. Grade: Pass/No Pass Only.

Criminal Justice Academies 034A
Advanced Officer Training (AOT)
Unit(s): 0.1-0.8
Class Hours: 4-40 Laboratory total.
Prerequisite: California POST Certified
Peace Officer.
Course is designed to cover a variety of courses that are required and meet POST 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): 0.1-0.8
Class Hours: 4-40 Laboratory total.
Prerequisite: California POST Certified
Peace Officer.
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 approved state mandated training. Grade: Pass/No Pass Only.

## Criminal Justice Academies 038B

## Basic SWAT Course

Unit(s): 1.6
Class Hours: 80 Laboratory total.
Prerequisite: Students must pass DOJ Livescan screening

A Peace Officer Standards and Training certified course to train peace officers to become a member of a Special Weapons and Tactics team member. May be repeated. Grade: Pass/No Pass Only.

## Criminal Justice Academies 039A

Emergency/First Aid Training
Unit(s): 0.1-0.8
Class Hours: 4-40 Laboratory total. Course is designed to cover first aid, CPR, fire life safety, swift water rescue and hazardous materials handling. Legally/ State Mandated Training. Grade: Pass/ No Pass Only.

Criminal Justice Academies 055A
Drivers Training/Force Option
Unit(s): 0.1
Class Hours: 8 Laboratory total.
Prerequisite: California POST Certified Peace Officer.

Course is designed to update students skills in the area of driving and force options. Legally/State Mandated Training. Grade: Pass/No Pass Only.

## Criminal Justice Academies 055B

Correctional Services Assistant Academy
Unit(s): 8.3-8.6
Class Hours: 400-416 Laboratory total.
Prerequisite: Students must pass DOJ Livescan screening

This course is designed to train new civilian employees all aspects of working in a criminal justice custody environment in a California jail. May be repeated. Grade: Pass/No Pass Only.

## Criminal Justice Academies 055C

Park Ranger Academy III
Unit(s): 5.1-5.4
Class Hours: 247-263 Laboratory total.
Prerequisite: Students must pass DOJ Livescan screening

Course is designed to train future Park
Rangers. The curriculum will include
certification for PC 832 (laws of arrest),
CPR, Park, Interpretation and other
Park Ranger Training. May be repeated.
Grade: Pass/No Pass Only.

## Criminal Justice Academies 055D

Sheriff Special Officer Academy
Unit(s): 13.8-14.2
Class Hours: 664-684 Laboratory total.
Prerequisite: Students must pass DOJ Livescan screening

In coordination with California POST this course provides training and certification for new OCSD Sheriff Special Officers. Grade: Pass/No Pass Only.

## Criminal Justice Academies 059

Supervision
Unit(s): 1.6
Class Hours: 80 Laboratory total.
Prerequisite: Successfully completed a
California P.O.S.T. basic academy
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): 2.9
Class Hours: 136 Laboratory total.
Prerequisite: Successfully completed any
P.O.S.T. basic academy

To update and renew a P.O.S.T. Basic
Certificate after a three year or longer
break in service. Includes updates in human relations, legal update, preliminary investigations, field tactics and the use of force and weaponry. 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 POST 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. Legally/State Mandated Training. 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. Legally/State Mandated 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. May be repeated. Grade: Pass/No Pass Only.

## Criminal Justice Academies 076A

Police K-9 Training
Unit(s): 0.1-5.8
Class Hours: 8-280 Laboratory total.
Prerequisite: California POST Certified
Peace Officer.
Intensive training for law enforcement personnel in the handling, deployment and care of a police service dog. Legally/ State Mandated Training. Grade: Pass/ No Pass Only.
Criminal Justice Academies 083A
Instructor Skills
Unit(s): 0.5-0.8
Class Hours: 24-40 Laboratory total.
Prerequisite: California POST Certified
Peace Officer.
Course is designed to develop teaching skills and prepare instructors for the classroom environment. Legally/State Mandated Training. Grade: Pass/No Pass Only.

## Criminal Justice Academies 088

Campus Law Enforcement Update
Unit(s): 0.8
Class Hours: 40 Laboratory total.
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. Must be a California POST peace officer, reserve POST California peace officer or employee of a California educational institution. Grade: Pass/No Pass Only.

Criminal Justice Academies 099
OCSD Basic Pre-Academy
Unit(s): 0.8-1.6
Class Hours: 40-80 Laboratory total.
Preparatory course to prepare students for the rigors of the basic police academy. May be repeated. Grade: Pass/No Pass Only.

Criminal Justice Academies 100A
Basic Police Academy
Unit(s): 19.0-21.0
Class Hours: 912-992 Laboratory total.
Prerequisite: Criminal Justice Academies 010
and admission to the course through Crimi-
nal Justice Academies office.
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. May be repeated.
Criminal Justice Academies 100B
Level 3 Modular Police Academy
Unit(s): 3.5-3.8
Class Hours: 168-184 Laboratory total.
Prerequisite: Livescan Department of Justice
fingerprint screen and medical clearance
The first module of the POST Certified Modular Police Academy Program. May be repeated. Grade: Pass/No Pass Only.

Criminal Justice Academies 100C
Level 2 Modular Police Academy
Unit(s): 4.4-4.7
Class Hours: 212-228 Laboratory total.
Prerequisite: Successful completion of California POST module 3 police academy program. Livescan Department of Justice fingerprint screening. Medical clearance The second module of the California POST Modular Police Academy Program. May be repeated. Grade: Pass/No Pass Only.

## Criminal Justice Academies 100D

## Level 1 Modular Police Academy

Unit(s): 9.1-9.5
Class Hours: 438-458 Laboratory total.
Prerequisite: Successful completion of
California POST Certified Module 2 Police Academy Program. Livescan fingerprint clearance from California department of Justice. Medical screening.

The third and final module of the California POST Certified Modular Police Academy Program. May be repeated. Grade: Pass/No Pass Only.

## CULINARY ARTS (CULN)

Culinary Arts 062
Basic Techniques of Cooking
Unit(s): 2.0
Class Hours: 16 Lecture, 48 Laboratory total Basic techniques and principles of food preparation are practiced in skill applied laboratory. (Same as Nutrition and Food 062.$)$

## Culinary Arts 066

Baking
Unit(s): 3.0
Class Hours: 32 Lecture, 48 Laboratory total. Basic techniques in the preparation and handling of ingredients to produce presentation quality baked/desserts for culinary professional.

## Culinary Arts 070

Beverage Service
Unit(s): 2.0
Class Hours: 32 Lecture total.
Intervention procedures by servers of alcoholic beverages. Familiarization with different types of wines and champagnes used in the food service/hospitality industry. Not offered every semester. Students must be 21 years of age to participate in all activities.

## 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 actual working professionals in the field.

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 \& service and equipment use, care, selection and accident prevention. (Same as Nutrition and Food 110). Grade: Pass/ No Pass Only.

## Culinary Arts 135

Gourmet and International Foods
Unit(s): 2.0
Class Hours: 24 Lecture, 24 Laboratory total. Advanced food production techniques to be utilized in planning, costing and implementing a widevariety of catered functions.

Culinary Arts 145
Foods Presentation Pantry/Garde Manger
Unit(s): 2.0
Class Hours: 24 Lecture, 24 Laboratory total. Foods presentation and cold food preparation emphasizing knife usage of fruit and vegetable.

Culinary Arts 200
Business Practices for Culinary Arts

## Professionals

Unit(s): 2.0
Class Hours: 32 Lecture total.
Prerequisite: Business 080 .
Business practices for entrepreneurs or individuals interested in employment in the culinary arts industry. Includes menu planning, marketing strategies, accounting systems, visits to industry sites.

## Culinary Arts 299

Cooperative Work Experience Education
Unit(s): 1.0-4.0
Class Hours: 6 Lecture, 240 Laboratory total. Prerequisite: 21 units completed in Culinary Arts or Nutrition \& Food degree/certificate courses.

Supervised culinary arts field experience with new tasks in major. Student can earn 1 unit of credit for 60 hours worked up to 240 hours for 4 units. Grade: Pass/No Pass Only.

## DANCE (DNCE)

Dance 009
Dance Class Laboratory
Unit(s): 0.5
Class Hours: 24 Laboratory total.
Provides studio rehearsal time to work out dance class assignments and rehearse for concert performances. New and different material each semester. 24 hours earns 0.5 unit. Requires concurrent enrollment in a dance course. May be repeated. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Dance 010
Advanced Dance Class Laboratory
Unit(s): 0.5
Class Hours: 24 Laboratory total.
Provides studio rehearsal time to work out dance class assignments and rehearse for concert performances. New and different material each semester. 24 hours earns 0.5 unit. Requires concurrent enrollment in a dance course. May be repeated. Grade: Pass/No Pass Only. 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.

## Dance 100H

Honors Dance History and Appreciation
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: A high school or college CPA 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 studentinitiated discussions in a seminar setting to explore dance history from cultural and aesthetic points of view.

## 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.

Dance 103
Dance and Movement for Educators
Unit(s): 3.0
Class Hours: 32 Lecture, 48 Laboratory total. Instruction in basic techniques to create dance movement appropriate for elementary and middle school pupils and its application across the curriculum Includes introduction to theories and principles of dance as identified in the Visual and Performing Arts Academic Content Standards.

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. Videotaped performances enhance the course.

## 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. May be repeated.

## 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. Two semesters of Dance 106AB equals Dance 206A. May be repeated.

Dance 107
Dance Concert Performance
Unit(s): 1.0
Class Hours: 8 Lecture, 40 Laboratory total. Prerequisite: Audition

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. May be repeated. Grade: Pass/No Pass Only.

## Dance 108A <br> 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.

## 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 basic ballet barre exercises, center work, and short dance works. Includes choreographic principles and cultural context of ballet. Two semesters of Dance 108AB equals Dance 201A.

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.

## 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.

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.

## 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.

## 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.

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 Polinesian dance. No experience necessary.

## 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.

## Dance 113B

Flamenco Dance II
Unit(s): 1.0
Class Hours: 8 Lecture, 24 Laboratory total. Prerequisite: Dance 113A.

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.

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.

## 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. Content varies each semester.

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.

## 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.

## Dance 122

Commercial Contemporary Dance
Unit(s): 1.0
Class Hours: 8 Lecture, 24 Laboratory total. Instruction for the advanced dance student in contemporary commercial 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.

## 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. Content varies each semester.

## 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. Content varies each semester. Introduction to salsa recommended.

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.

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.

Dance 140
Dance Repertory Workshop
Unit(s): 1.0
Class Hours: 9 Lecture, 27 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.

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 ansd the professional dancer.

## 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. Basic alignment, use of turnout, coordination, and ballet terminology, Dance 201A prepares the student for Dance 201B. May be repeated.

## Dance 201B

Ballet II
Unit(s): 2.0
Class Hours: 16 Lecture, 48 Laboratory total. Continuation of beginning ballet technique and terminology, including barre work, center work, and combinations en diagonale. Basic alignment, use of turnout, coordination and ballet terminology. Dance 201B utilizes additional combination work and prepares the student for Dance 213. Dance 201A recommended. May be repeated.

Dance 202A
Choreography
Unit(s): 3.0
Class Hours: 32 Lecture, 48 Laboratory total. A class for the general student which defines and explores the elements involved in creating a dance. Students will develop choreographic skills in order to be able to express their ideas through dance movement. Compositions created by students will be performed in the studio. For non-majors only.

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. Solo compositions created by students performed in dance studio. Dance majors.

## 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.

## Dance 204B

## Dance Production

Unit(s): 2.0
Class Hours: 16 Lecture, 48 Laboratory total.
Prerequisite: Dance 202A or 202B 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.

## Dance 205

Performance Ensemble
Unit(s): 2.0
Class Hours: 16 Lecture, 48 Laboratory total. Prerequisite: Audition.

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. May be repeated. Grade: Pass/No Pass Only.

## 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.

## Dance 206B

Modern Dance II
Unit(s): 2.0
Class Hours: 16 Lecture, 48 Laboratory total. Prerequisite: Dance 206A 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. Video, concerts and master classes enrich the course. Dance 206B is a continuation and refinement of work begun during Dance 206A.

## 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.

## 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.
Dance 213
Ballet III
Unit(s): 2.0
Class Hours: 16 Lecture, 48 Laboratory total. Study of ballet technique and terminology on the intermediate level. Course content includes center adagio, jumps with beats, pirouettes, and movement combinations. Intermediate variations are also learned and performed in class.

## Dance 214

Ballet IV
Unit(s): 2.0
Class Hours: 16 Lecture, 48 Laboratory total. Continuing study of technique and terminology. Emphasizes longer, more intricate movement combinations and development of balletic style. Stresses expression and technique at high/intermediate level. Includes ballet history and comparisons of various ballet styles.

## 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.

Dance 219B
Jazz Dance II
Unit(s): 2.0
Class Hours: 16 Lecture, 48 Laboratory total. Continued study in 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. Movement repertoire differs from 219A.

Dance 220
Jazz Dance III
Unit(s): 2.0
Class Hours: 16 Lecture, 48 Laboratory total. 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. May be repeated.

Dance 221
Jazz Dance IV
Unit(s): 2.0
Class Hours: 16 Lecture, 48 Laboratory total. 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. Dance 220 recommended. May be repeated.

## Dance 232

## Partnering

Unit(s): 1.0
Class Hours: 8 Lecture, 24 Laboratory total.
Prerequisite: Completion of a prior dance
class or current 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.

## 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.

## 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.

## 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.
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.

## 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

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. Encourages and supports 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.

## Dance 261

## Somatic Practices in Modern Dance

Unit(s): 1.0
Class Hours: 8 Lecture, 24 Laboratory total. Prerequisite: DNCE 260 with a minimum grade of C

Application of somatic practices learned in Dance 260 to intermediate/advanced level modern dance techniques. Grade: Pass/No Pass Only.

## Dance 262

Somatics Practices in Ballet
Unit(s): 1.0
Class Hours: 16 Lecture, 24 Laboratory total.
Prerequisite: DNCE 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.

## Dance 263

## Somatic Practices in Jazz Dance

Unit(s): 1.0
Class Hours: 8 Lecture, 24 Laboratory total. Prerequisite: DNCE 260 with a minimum grade of C

Application of somatic practices learned in Dance 260 to intermediate/advanced level jazz dance techniques. Grade: Pass/
No Pass Only.

## Dance 270

Dance Internship
Unit(s): 2.0
Class Hours: 8 Lecture, 72 Laboratory total.
Prerequisite: By recommendation of dance department chair.

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. Experience differs each semester. Grade: Pass/No Pass Only.

## 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.

## 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.

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.

## DIESEL (DSL)

Diesel 003
Introduction to Diesel/Hybrid Vehicles
Unit(s): 2.0
Class Hours: 32 Lecture total.
This course will present an introduction and overview of the Diesel, Hybrid, and Alternative Fuel Systems used on modern vehicles. System components and terminology, and job safety and skills will be emphasized. (Same as Automotive 003). May be repeated.

Diesel 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 008 and Welding 008.)

## Diesel 009

## Chassis Overhau

Unit(s): 8.0
Class Hours: 64 Lecture, 192 Laboratory total.

IInspection, service and overhaul procedures used on medium and heavy duty axles, steering and suspension components, clutches, transmissions, drivelines, differentials, air brake, and ABS systems.

## Diesel 010

Bendix Air Brake System Service
Unit(s): 1.5
Class Hours: 24 Lecture total.
Theory of operation of Bendix Medium and Heavy-Duty On-Highway Vehicle Air Brake Systems. Service, repair, and troubleshooting procedures used by the industry will be covered.

## 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 procedures of Allison transmissions. Students must furnish hand tools and safety equipment.

## Diesel 015

Introduction to Heavy Duty Mobile Hydraulics
Unit(s): 4.0
Class Hours: 64 Lecture, 64 Laboratory total. This course presents operation and service procedures for hydraulic devices found on heavy duty diesel equipment and trucks. Students must furnish tools and own safety equipment.

Diesel 021
Mid-Range Diesel Engine Service
Unit(s): 4.5
Class Hours: 48 Lecture, 80 Laboratory total. Troubleshooting and service and repair techniques for medium-duty diesel engines and fuel systems. Students must furnish own safety equipment.

## 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 motor vehicles. Suggested preparation: Automotive Technology 002 or 006. (Same as Automotive Technology 022.)

## Diesel 024

## Electrical Systems

Unit(s): 5.0
Class Hours: 64 Lecture, 64 Laboratory total. TTheory, 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 025

Diesel and Heavy Duty Vehicle Engine Overhaul
Unit(s): 8.0
Class Hours: 64 Lecture, 192 Laboratory total.

Overhaul and repair of heavy duty diesel engines. Designed to acquaint the student with the theory of operation, trouble diagnosis, service and repair of two and four-cycle heavy duty diesel engines.

## Diesel 032

Diesel Fuel Injection Systems Service
Unit(s): 5.0
Class Hours: 48 Lecture, 96 Laboratory total. Theory, testing, and service of mechanical and electronic diesel fuel injection systems. Engine tune-up and troubleshooting techniques on current production heavy-duty diesel engines. Students must furnish safety equipment and protective clothing.

## Diesel 040

Diesel Electrical Systems
Unit(s): 5.0
Class Hours: 48 Lecture, 96 Laboratory total. Diagnosis, service, and repair procedures for starting, charging, lighting, and instrument systems. Students furnish safety equipment and protective clothing.

## Diesel 050

## Transport Refrigeration

Unit(s): 8.0
Class Hours: 96 Lecture, 96 Laboratory total. Theory and operation of truck, trailer, and container single and multitemperature refrigeration, electrical and microprocessor control systems used on current production Carrier and Thermo King units. Service, repair, and troubleshooting procedures used by the industry will be covered.

## Diesel 055

## Marine Container Refrigeration

Unit(s): 4.0
Class Hours: 64 Lecture, 64 Laboratory total Theory of operation of refrigeration, electrical, electronic and microprocessor controller systems used by Thermo King and Carrier on current production marine container refrigeration units. Service, repair, and troubleshooting procedures used by the industry will be covered.

## Diesel 062

## Air Conditioning and Heating

Unit(s): 3.0
Class Hours: 36 Lecture, 60 Laboratory total. Operation, testing, and servicing of air conditioning and heating systems. Students must furnish hand tools and safety equipment. Suggested preparation: Automotive Technology 002 or 006. (Same as Automotive Technology 062.)

## Diesel 068

## Transit Vehicle Engines

Unit(s): 0.8
Class Hours: 27 Lecture, 15 Laboratory total. 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.

## Diesel 069

Paratransit Driver Training
Unit(s): 1.0
Class Hours: 30 Lecture, 24 Laboratory total. Orientation to paratransit bus system defensive driving techniques, equipment orientation, performance of pre-operation, inspections, customer escorting techniques, operation of lifts and proper use of equipment restraints, Americans with Disabilities Act policies and procedures, and Orange County Transit Authority requirements for servicing the disabled. Grade: Pass/No Pass Only.

## Diesel 070

Bus Driver Training
Unit(s): 2.3
Class Hours: 58 Lecture, 56 Laboratory total. Orientation to the fixed route bus system, defensive driving techniques, equipment orientation, including performance of pre-trip inspections, Americans with Disabilities Act (ADA) policies and procedures, customer service techniques, and an introduction to internal system knowledge such as transit terminology and bus route information. Students must pass all written exams with a score of $80 \%$ or better. Grade: Pass/No Pass Only.

## Diesel 071

Introduction to Coach Operations
Unit(s): 0.3
Class Hours: 18 Lecture total.
To provide students with an overview of the Certified Maintenance Course. Covers ground rules and expectations. Discusses safety issues and familiarizes students with the proper use of hand tools. Includes overview of the functions and procedures for the preventive maintenance on a bus. Grade: Pass/No Pass Only.

## Diesel 072

## Transit Vehicle Electrical Systems

Unit(s): 0.2
Class Hours: 26 Lecture, 10 Laboratory total. To provide students with functions and components of the electrical systems on a bus. Principles of electricity and safety with an overview of troubleshooting techniques for both conventional and computer controlled buses. Grade: Pass/ No Pass Only.

## Diesel 073

## Transit Vehicle Air Systems

Unit(s): 0.2
Class Hours: 8 Lecture, 4 Laboratory total. To provide students with functions and components of the air systems on a bus. Principles of air supply and safety with an overview of troubleshooting techniques for both conventional and computer controlled buses. Grade: Pass/No Pass Only.

## Diesel 075

Transit Vehicle Automatic Transmissions
Unit(s): 0.5
Class Hours: 18 Lecture, 6 Laboratory total. Designed to acquaint the student with the basic theory of operation, diagnostic and troubleshooting techniques, repair and service of automatic transmissions. Grade: Pass/No Pass Only.

## Diesel 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. Students furnish hand tools and safety equipment. Suggested preparation: Automotive Technology 002 or 006 (may be taken concurrently.)

Diesel 077
Transit Vehicle Heating, Ventilation, Air

## Conditioning

Unit(s): 0.5
Class Hours: 18 Lecture, 6 Laboratory total.
Designed to acquaint the student with the basic theory of operation, diagnostic and troubleshooting techniques, repair and service of heating, air conditioning and ventilating buses. Grade: Pass/No Pass Only.
Diesel 078
Transit Vehicle Drive Train Suspension
Unit(s): 0.4
Class Hours: 15 Lecture, 6 Laboratory total.
Designed to acquaint the student with the basic theory of operation, diagnostic and troubleshooting techniques, repair and service of drive train suspension. Grade: Pass/No Pass Only.

## Diesel 079

Transit Vehicle Wheelchair Lifts
Unit(s): 0.2
Class Hours: 8 Lecture, 4 Laboratory total. Designed to acquaint the student with the basic theory of operation, diagnostic and troubleshooting techniques, repair and service of wheelchair lifts. Grade: Pass/ No Pass Only.

## Diesel 080

Transit Vehicle Air Brake Systems
Unit(s): 0.3
Class Hours: 10 Lecture, 8 Laboratory total. Diagnosis, service and repair procedures of air brake systems used on Orange County Transportation buses. Actual work with components and controls on the air brake systems is accomplished. Grade: Pass/No Pass Only.

## Diesel 095

Diesel Lab Experience
Unit(s): 0.5-4.0
Class Hours: 192 Laboratory total.
Prerequisite: Completion of corresponding
Diesel course with a grade of C or better.
This diesel lab course is designed to give the diesel student lab experience in a diesel course previously completed with a grade of C or better. The student must be enrolled by the instructor. Students must furnish hand tools and safety equipment. May be repeated to a maximum of 4 units. Grade: Pass/No Pass Only. Open Entry/Open Exit.

## EARTH SCIENCE (ERTH)

Earth Science 110
Introduction to Earth Science
Unit(s): 3.0
Class Hours: 48 Lecture total. A study of the processes that shape and form the Earth and define its place in the solar system. Introduction to the sciences of geology, oceanography, meteorology, and astronomy. Not open to students who are enrolled, or have credit in Geology 101 or Geography 101.

## Earth Science 110H

Honors Introduction to Earth Science
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: A high school or college GPA
of 3.0 or above.
An intensive study of the processes that shape and form the Earth and define its place in the solar system. Introduction to the sciences of geology, oceanography, meteorology, and astronomy. Not open to students who are enrolled, or have credit in Geology 101 or Geography 101.

## Earth Science 115

Earth Science for Educators
Unit(s): 4.0
Class Hours: 48 Lecture, 48 Laboratory total. The study of the dynamic forces shaping the earth, including its oceans and atmosphere. This class is open to all majors but is oriented towards enhancing the earth science knowledge of future teachers. Also includes an introduction to the solar system. Not open to students who are enrolled or have credit in Earth Science 110, Geology 101 or Geography 101.

## Earth Science 150 <br> Introduction to Oceanography <br> 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 Geology 150.)

## Earth Science 150H

## Honors Introduction to Oceanography

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 of the ocean's topography, sediments, circulation, shoreline processes, biological productivity and mineral resources. Course is taught in a seminar format to provide optimal active learning and critical thinking. (Same as Geology 150H.)

## ECONOMICS (ECON)

Economics 120
Principles/Macro
Unit(s): 3.0
Class Hours: 48 Lecture total. 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. Mathematics 060 or Mathematics 061 are recommended.

## Economics 121

## Principles/Micro

Unit(s): 3.0
Class Hours: 48 Lecture total.
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. Mathematics 060 or Mathematics 061 are recommended.

## EDUCATION (EDUC)

Education 100
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 32-48 hours of Service Learning (structured observation and internship)in local elementary schools during the semester.

Education 204
Personal Proficiency in Educational
Technologies for Secondary Teachers
Unit(s): 3.0
Class Hours: 48 Lecture total.
Development of personal proficiency in educational technology to facilitate the teaching process. Training in computer hardware and software terminology; spreadsheets, word processing, publication, and presentation applications; Internet search and retrieval; information literacy; electronic communication and awareness of legal and ethical issues.

## Education 205

Personal Proficiency in Educational
Technology for Elementary Teachers
Unit(s): 3.0
Class Hours: 48 Lecture total.
Development of proficiency in educational technology to facilitate the teaching process. Training in computer hardware and software terminology; spreadsheet, word processing, publication, and presentation applications; Internet search and retrieval; information literacy; electronic communication and awareness of legal and ethical issues.

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.
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, and struggling readers; content standards; and major curriculum reform documents. Students participate in 40 hours of structured observation and internship in a local secondary classroom.

## 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.

## EMERGENCY MEDICAL TECHNICIAN (EMT)

Emergency Medical Technician 101
Emergency Medical Technician
Unit(s): 7.0
Class Hours: 96 Lecture, 48 Laboratory total.
Prerequisite: American Heart Association
CPR Healthcare Provider Card and EMT 105
with a minimum grade of C .
Basic course for EMT. Satisfies requirements for County/State EMS Authority Prepares student to take O.C.E.M.S./ National Registry certifying exam for state certification.

## Emergency Medical Technician 105

Clinical EMT Skills Laboratory
Unit(s): 1.0
Class Hours: 48 Laboratory total.
Prerequisite: EMT 101
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 101. Hours verified by instructor. Grade: Pass/No Pass Only. Open Entry/Open Exit.

## Emergency Medical Technician 111 <br> Recertification for EMT I-Basic

Unit(s): 2.0
Class Hours: 32 Lecture total.
Prerequisite: Valid EMT I (Basic) certificate or equivalent within past two years. Valid
CPR card: Health Care Provider
Update emergency medical techniques, equipment, and EMSA policies. Meets state requirements for EMT-1 Basic recertification.

## ENGINEERING (ENGR)

Engineering 011
Basic Mechanical Blueprint Reading
(Formerly: Basic Blueprint Reading)
Unit(s): 2.0
Class Hours: 32 Lecture total. Reading and interpreting blueprints for manufacturing technologies. (Same as Manufacturing Technology 011)

## Engineering 012

AEC Blueprint 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, 64 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. Suggested preparation: Engineering 183 (may be taken concurrently).
Engineering 100A
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.) Includes an overview of academic programs, career information and preparation requirements, virtual or in person field trips, projects, and guest speakers.

## 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.
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.) Suggested Preparation: Engineering 011.

## Engineering 104

Solidworks Intermediate Solid Modeling

## Unit(s): 3.0

Class Hours: 48 Lecture total.
Prerequisite: Engineering 103.
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.)

## Engineering 105

Solidworks Advanced Solid Modeling
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Engineering 104.
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, subassemblies, advanced photoworks and advanced animator emphasized. (Same as Manufacturing Technology 105.)
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.

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.

Engineering 114
Geometric Dimensioning and Tolerancing
Unit(s): 3.0
Class Hours: 48 Lecture total.
Drawing interpretation utilizing geometric dimensioning and tolerancing
(ANSI Y14.5) as applied in engineering, manufacturing, and inspection.
Suggested preparation: Engineering
011 or Engineering 122. (Same as
Manufacturing Technology 114.)
Engineering 115
Cooperative Work Experience Education-
Occupational
Unit(s): 1.0-16.0
Class Hours: 60-1200 Contact 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. A maximum of 4 units is allowed per semester. Limitation of 16 units in occupational cooperative education courses. Grade: Pass/No Pass Only.

Engineering 118
Plane Surveying
Unit(s): 4.0
Class Hours: 48 Lecture, 48 Laboratory total. History and careers in surveying. Introduction to survey measurements, distance, direction and elevations. Traverse computations and adjustment. Recording field measurements. Assists in passing the land surveyor-intraining exam. Completion of Math 160 recommended.
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 Math 160 recommended.

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. Suggested preparation: Engineering 051 and 183 (Engineering 183 may be taken concurrently).

## Engineering 124

Advanced Drawing
Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total. Advanced topics in engineering drawing and design - working drawings, fasteners, cams, gears, auxiliary views, advanced sectioning, dimensioning, tolerancing. Utilizing sketches and computer drafting program. Suggested preparation: Engineering 122 or 125.

Engineering 125
Engineering Graphics
Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total.
Prerequisite: Mathematics 160.
Technical drawing and descriptive geometry fundamentals. Includes projection theory, dimensioning, tolerancing, section, design and graphical mathematics, utilizing sketches and computer drafting program. Suggested preparation: Engineering 051 and 183 (may be taken concurrently).

Engineering 130A
CATIA Solid Modeling I
Unit(s): 3.0
Class Hours: 32 Lecture, 48 Laboratory total. Introductory course in parametric solid modeling CAD using CATIA software. Topics include: CAD overview, sketching, basic solid model creation (base features, extrudes, revolves, etc.) sketch constraints, reference elements, hole features, feature editing, assembly and drawing creation. (Same as Manufacturing Technology 130A).

Engineering 130B
CATIA Solid Modeling II
Unit(s): 3.0
Class Hours: 32 Lecture, 48 Laboratory total. Intermediate course in parametric solid modeling CAD using CATIA software. Topics: intermediate/advanced level sketching, modeling (ribs, slots, lofts), feature transformation, assemblies, drafting workbench, surface modeling, and other CATIA modules. Suggested preparation: Engineering 130A (Same as Manufacturing Technology 130B).

Engineering 132
Introduction to Robotics
Unit(s): 3.0
Class Hours: 32 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.

## Engineering 140A

## ProEngineer Solid Modeling I

Unit(s): 3.0
Class Hours: 32 Lecture, 48 Laboratory total. Introductory course in parametric solid modeling CAD using ProEngineer software. Topics include sketches, sketch constraints, part modeling and editing, assemblies, drawing creation and views, dimensioning, and annotations.

## Engineering 140B

## ProEngineer Solid Modeling II

Unit(s): 3.0
Class Hours: 32 Lecture, 48 Laboratory total. Intermediate course in parametric solid modeling CAD using ProEngineer software. Topics intermediate level sketching, part modeling and modification, assemblies, drawing, surface modeling, and other ProE modules. Suggested preparation - Engineering 140A.

## Engineering 142

Architecture/Civil Engineering/Construction (AEC) Drafting Standards
Unit(s): 4.0
Class Hours: 48 Lecture, 64 Laboratory total. Prerequisite: Engineering 183.

Basic AEC graphic standards using computer drafting. Topics include ecological terms and concepts, plans, elevations, sections, schedules, structures, abbreviations, lettering, symbols and linetypes. Recommended preparation Engineering 012 and 184.

## 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.

## 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.

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.
Engineering 183
AutoCAD I- Computer Aided Drafting
Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total. A first course in computer drafting using AutoCAD software. Topics include: display and file management, units, entities, object selection, advanced editing, layers, dimensions, text, graphic exchange.
Engineering 184
AutoCAD II - Computer Aided Drafting
Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total. Intermediate course in the use of AutoCAD software. Topics include blocks, hatches, attributes, inquiry, and 3-D introduction. Recommended preparation: Engineering 183.
Engineering 185
AutoCAD III - Computer Aided Drafting
Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total. Advanced course in the use of AutoCAD software. Topics include DXF format, scripts, macros, customizing and creating image tile menus. Recommended preparation: Engineering 184.

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.

Engineering 187
Advanced 3-D AutoCAD
Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total. Advanced use of AutoCAD's 3-Dimensional software. Includes: merging of models, advanced modeling, calculations, 3-dimensional rendering and presentation. Suggested preparation: Engineering 186.

Engineering 188
Machine Technology Survey
Unit(s): 3.0
Class Hours: 16 Lecture, 112 Laboratory total.
Prerequisite: Successful completion of or concurrent enrollment in any one of the following: Manufacturing Technology 011; Engineering 011, 051, 122, 124, 125.

Machine tool setup 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 Manufacturing Technology 188.)

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.

Engineering 193
Microstation 3-D
Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total. 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.

## Engineering 201

Architectural Practice
Unit(s): 4.0
Class Hours: 48 Lecture, 64 Laboratory total.
Prerequisite: Engineering 183.
Course provides "real world" practical knowledge, ecological terms and concepts, needed to research information, make decisions, develop a basic design, experience the process of working through a project, and understand how various activities are related in the scope of a typical small project. Suggested preparation: Engineering 142, 112 and 149.

Engineering 205
Civil Digital Computations
Unit(s): 3.0
Class Hours: 32 Lecture, 64 Laboratory total. Prerequisite: Engineering 183.

Introduction to the theory of AutoCAD engine in civil engineering. Included topics: CAD customization for civil engineers; digital computation methods in statistics and solving algebraic equations; primary combined and complex elements; CAD engine deliverables; complex shapes and libraries.

## 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 .

## Engineering 235

## Statics

Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Physics 217 \& Mathematic 185
(both may be taken concurrently) The first part of mechanics, as applied to static force systems and equilibrium conditions occurring in engineering problems. Includes some graphical methods and the use of diagrams as an aid to algebraic solutions. Utilizes SI metrics.

## Engineering 240

Dynamics
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Engineering 235.
The second part of mechanics, concerned with the effect of forces on the motion of objects. Introduction to kinematics and kinetics, rectilinear and curvilinear motion, work and energy, impulse and momentum, and vibrations.

## Engineering 250

Electric Circuits
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Mathematics 280, and Physics
227 (both may be taken concurrently).
Ohm's and Kirchhoff's Laws, useful theorems for circuit analysis, RC, RL, and RLC circuits, phasors and steady-state sinusoidal analysis, and polyphase circuits.

## Engineering 250L

Electric Circuits Laboratory
Unit(s): 1.0
Class Hours: 48 Laboratory total.
Prerequisite: Engineering 250 or concurrent enrollment.

Selected laboratory exercises in engineering circuit analysis. Resistive, RL, RC, and RLC circuits, and circuit analysis theorems.

## Engineering 281

Properties of Engineering Materials
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Chemistry 209 and Physics 217. 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).

## 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 punctua-
tion. Not applicable to associate degree.
Students may be referred to the Writing
Center.
English N60
Basics of Effective Writing
Unit(s): 3.0
Class Hours: 64 Lecture total.
Prerequisite: A grade of C or better in Eng-
lish N50 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): 3.0
Class Hours: 64 Lecture total.
Prerequisite: Grade of C or better in English
N60 or qualifying profile from English placement process.

Expository paragraph writing emphasizing various methods including argumentation. Practice in refining sentence skills and grammar.
English 101
Freshman Composition
Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: Grade of C or better in English
061 or EMLS 112 or ACE 116 or qualifying
profile from English placement process.
Expository and argumentative essays and the research paper. Special interest sections described in schedule of classes.

## English 101H

Honors Freshman Composition
Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: A high school or college GPA of 3.0 or above and a grade of C or better in English 061/ESL EMLS 112 or ACE 116 or qualifying profile from English placement process.

An enriched exposure to expository and argumentative essays and the research paper, requiring in-depth analysis of issues and substantive treatment of student selected topics.

English 102
Literature and Composition
Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: A grade of C or better in English 101 or English 101H.

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.
English 102H
Honors Literature and Composition
Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: A high school or college GPA of 3.0 or above and a grade of C or better in English 101 or 101 H .

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.

## English 103

## Critical Thinking and Writing

Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: English 101 or 101 H with a grade of C or better.

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.

## English 103H

Honors Critical Thinking and Writing
Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: A high school or college GPA of 3.0 or above and a grade of C or better in
English 101 or 101 H .
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 problemsolving in a seminar setting.
English 104
Language and Culture
Unit(s): 3.0
Class Hours: 48 Lecture total.
General introduction to the processes of human communication. Includes the relationship between languages and culture, acquisition of first and second languages, languages in contact, sociolinguistics and the effects of both language and culture on inter/intra group communication. Languages spoken in the local area are used as the basis of study. (Same as Anthropology 104.)

English 104H
Honors Language and Culture
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: A high school or college GPA
of 3.0 and or above.
Enriched, in-depth study of the processes of human communication. Includes the relationship between language and culture, acquisition of first and second languages, languages in contact, sociolinguistics and the effects of both language and culture on inter/intra group communication. Languages spoken in the local area are used as the basis of study. Requires individual research paper and oral presentations of readings in a seminar setting. (Same as Anthropology 104H.)

## English 206

Introduction to Language Structure and Use
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101 or 101H.
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.

## English 211

Creative Writing I/Fiction
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101 or 101 H with a
minimum grade of C .
Writing techniques focusing on fiction.
Workshop format, emphasis on writing
and critiquing.

## English 212

Creative Writing II/Fiction
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 211 with a minimum grade of C.

Writing techniques focusing on fiction.
Workshop format, emphasis on writing and critiquing.

## English 214

Creative Writing I/Poetry
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101 or 101H.
A poetry-writing course focusing on poetic techniques, forms and content. Extensive written practice and analysis of the poem and its variety as seen in student and professional work. Covers techniques for submitting works for publication.

English 215
Creative Writing II/Poetry
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 214.
An advanced poetry-writing course focusing on poetic techniques, forms and content. Extensive written practice and analysis of the poem and its variety as seen in student and professional work. Special emphasis is on the timeless themes of poetry. Covers techniques for submitting works for publication.
English 220
Survey of the Bible As Literature
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101 or 101H.
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.

## English 231

Survey of English Literature
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101 or 101H. 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.

English 232
Survey of English Literature
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101 or 101H. 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.

English 233A
Shakespeare's Comedies and Romances
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101 or 101H 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. (Same as Theatre Arts 233A.)

English 233B
Shakespeare's Tragedies and History Plays
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101 or 101H. 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. (Same as Theatre Arts 233B.)

## English 233C

## Shakespeare's Theatre

Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101 or 101 H . 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. (Same as Theatre Arts 233C.)

## English 233D

## Shakespeare's Theatre

Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101 or 101 H . 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. (Same as Theatre Arts 233D.)

## English 241

Survey of American Literature 1600-1865
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101 or 101 H .
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.
English 242
Survey of American Literature, 1865 - Present
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101 or 101H.
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.

## English 243

The Modern American Novel
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101 or 101H.
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.

English 245
The Image of African Americans in Literature and Films
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101 or 101H. 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 AfricanAmerican images.

## English 246

Survey of Chicano Literature
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101 or 101H.
Examines American literature by and about Chicanos. Emphasizes the relationships between various works and the Chicanos place in American society/ culture.

English 270
Children's Literature
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101 or 101 H with a grade of C or better.

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.

English 271
Survey of World Literature
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101 or 101H.
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.

## English 272

Survey of World Literature
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101 or 101H.
Survey of world literary masterworks since the Renaissance studied for artistic form, cultural influence, and contributions to modern and contemporary thought.

## English 278

Survey of Literature by Women
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101 or 101H. An historical survey of literature by women. Will include short stories, novels, plays, poetry, and non-fiction.

## 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. 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): 4.0
Class Hours: 96 Lecture total.
Prerequisite: Qualifying profile from ESL 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.

# SANTA ANA COLLEGE ESL/ENGLISH FOR MULTILINGUAL STUDENTS (EMLS) 

ESL/EMLS courses are offered by the English/ESL Dept. to help bilingual, multilingual, and non-native speakers of English who need additional work before enrolling in English 101, Freshman Composition. These courses provide practice in such areas as vocabulary, advanced sentence construction and especially, practice in writing 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 at the same time in a Reading class and possibly a Communication Studies class to improve their English faster.
EMLS 109, like the other EMLS courses, focuses on writing problems faced by bilingual or non-native speakers of English. EMLS 107 through EMLS 112, unlike English N60 and 061, are transferable to some California State University campuses as electives.
Placement in 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 |  | COMMUNIGATION STUDIES COURSE | READING COURSE |
| :---: | :---: | :---: | :---: |
| INTERMEDIATE LEVEL COURSES |  |  |  |
| CEC Transfers often place here | EMLS 055 | Communication Studies N52A | Reading N50 or N80 |
|  | EMLS 107 | Communication Studies N52AB | Reading N80 |
| High School Grads often place here | EMLS 109 | Communication Studies 096, 097 or N53 | Reading N90 |
| ADVANCED LEVEL COURSES |  |  |  |
|  | EMLS 110 | Communication Studies 096, 097 or N53 | Reading N90 or 102 |
|  | EMLS 112 | Communication Studies N50 | Reading 102 |
| FRESHMAN COMPOSITION |  |  |  |
|  | English 101 | Communication Studies 101 or 102 | Reading 150 |

EMLS 107 through 112 are CSU transferable. English N60 and 061 are not.

English For Multilingual Students 107 Writing, Grammar and Reading II
Unit(s): 4.0
Class Hours: 96 Lecture total.
Prerequisite: Grade of C or better in EMLS 055 or qualifying profile from ESL 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.

English For Multilingual Students 109
Writing, Grammar and Reading III
Unit(s): 4.0
Class Hours: 96 Lecture total.
Prerequisite: Grade of C or better in EMLS
107 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.

English For Multilingual Students 110
Introduction to the Essay

## Unit(s): 3.0

Class Hours: 64 Lecture total.
Prerequisite: Grade of C or better in EMLS 109 or qualifying profile from ESL placement process.

Introductory writing course for multilingual students who speak English fluently but make multiple grammar errors when writing. Composition course progresses
from paragraph to essay, emphasizing basic expository modes, grammar review, critical reading, and revision and editing techniques.

## English For Multilingual Students 112

Advanced Composition

## Unit(s): 3.0

Class Hours: 64 Lecture total.
Prerequisite: Grade of C or better in EMLS 110 or qualifying profile from ESL placement process.

Advanced level writing course for multilingual 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.

## 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.

## 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.
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.

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.

## 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.

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.

## 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.
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.

## 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 difference audiences for a business plan.

## 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.

## 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 principals in an exciting business context.

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.

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 Accounting102 and 173. (Same as Accounting 174.)

## ENVIRONMENTAL STUDIES (ENVR)

## Environmental Studies 140

Environmental Geology
Unit(s): 3.0
Class Hours: 48 Lecture total. Study of urban geologic hazards: earthquakes, groundwater pollution, flood potential, landslides and creep, soil expansion, coastal erosion, and volcanic hazards. (Same as Geology 140).

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.)
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 and Science 200.)

Environmental Studies 259
Environmental Biology
Unit(s): 4.0
Class Hours: 48 Lecture, 48 Laboratory total. Introduction to Environmental Studies. 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.)

## 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 Euro-Americans, Native Americans, Asian Pacific Americans, African Americans, and Mexican Americans/Latinos from the pre-Columbian period to the present.

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 and or above.
Historical and cultural survey of ethnic groups and relations in the U.S. among Euro-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.

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.

## Ethnic Studies 102H

Honors: the Borderlands: Cultural Context and Intercultural Relations
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: A high school or college GPA of 3.0 and or above.

Enriched 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, in a seminar format.

## FASHION DESIGN MERCHANDISING (FDM)

## Fashion Design Merchandising 005

Fashion Laboratory
Unit(s): 0.5-1.0
Class Hours: 48 Laboratory total.
Prerequisite: Concurrent enrollment in any
Fashion Design Merchandising course.
Supervised use of the fashion laboratory. Lab hours vary by sign-in. Twenty-four hours laboratory per 0.5 units. May be repeated. Grade: Pass/No Pass Only. Open Entry/Open Exit.
Fashion Design Merchandising 005A
Fashion Laboratory
Unit(s): 0.5-1.0
Class Hours: 16 Laboratory total.
Advanced level of supervised use of the fashion laboratory. Lab hours vary by sign-in. Sixteen hours laboratory per 0.5 unit. May be repeated. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Fashion Design Merchandising 052
Knit Sewing
Unit(s): 2.0
Class Hours: 32 Lecture, 24 Laboratory total. Knit and stretch construction techniques to sew lingerie, bathing suits, jogging attire and knit shirts. May be repeated. Grade: Pass/No Pass Only.

Fashion Design Merchandising 053
Introduction to Sewing
Unit(s): 2.0
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. May be repeated. 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. May be repeated.

Fashion Design Merchandising 056
Basic Sewing and Alternations
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. Basic flat pattern methods for designing original patterns and altering designs of commercial patterns for dressmakers. Students will construct their designed garments. Suggested preparation: Fashion Design Merchandising 105A and 105B. May be repeated.

## 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. May be repeated. 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. May be repeated. Grade: Pass/No Pass Only.

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 socioeconomic, political, technological, and global influences; emphasis on current fashion careers.

Fashion Design Merchandising 101
Buying and Merchandising
Unit(s): 3.0
Class Hours: 48 Lecture total.
Principles, techniques and vocabulary of fashion merchandising; planned purchasing and buying challenges of merchandising to satisfy consumer demands.

## 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. May be repeated.

Fashion Design Merchandising 103

## Fashion Selection

Unit(s): 3.0
Class Hours: 48 Lecture total. Analysis of color, line and design with sociological, psychological and fashion trend considerations for garment selection, facial design and wardrobe planning. For men and women.

Fashion Design Merchandising 104
Textile Fibers and Fabrics
Unit(s): 3.0
Class Hours: 48 Lecture, 16 Laboratory total. A study of textile fibers and fabrics, their selection, identification, use and care for wearing apparel and home furnishings.

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, and lined garment. Coordinating woven fabrics, fitting patterns, and basic sewing techniques.

Fashion Design Merchandising 105B Intermediate Sewing
Unit(s): 2.0
Class Hours: 24 Lecture, 32 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.
Fashion Design Merchandising 106
Advanced Sewing
Unit(s): 3.0
Class Hours: 32 Lecture, 48 Laboratory total. Advanced clothing construction techniques appropriate for creating custom garments. Emphasis is placed on working with designer patterns and complex contemporary fabrics. Projects include lined suits and custom garments. Recommended preparation: Fashion Design Merchandising 105B.

Fashion Design Merchandising 106A
Advanced Sewing I
Unit(s): 1.5
Class Hours: 16 Lecture, 24 Laboratory total. Advanced clothing construction techniques appropriate for creating custom garments. Emphasis is placed on working with designer patterns and complex contemporary fabrics. Projects include custom garments. Follow-up of Fashion Design Merchandising 105B, Intermediate Sewing.

Fashion Design Merchandising 106B
Advanced Sewing II
Unit(s): 1.5
Class Hours: 16 Lecture, 24 Laboratory total. Advanced construction sewing techniques to complete a lined suit or coat, including challenging fabrics and individualized selection and fit. Follow-up of Fashion Design Merchandising 106A, Advanced Sewing I.

## 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. Suggested preparation: Fashion Design Merchandising 106.

## 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.

Fashion Design Merchandising 109
Flat Pattern Techniques (Formerly: Pattern

## Design)

Unit(s): 3.5
Class Hours: 48 Lecture, 32 Laboratory total. 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. Suggested preparation: Fashion Design Merchandising 105A and 105B.

## Fashion Design Merchandising 111A

Fashion Sketching
Unit(s): 2.0
Class Hours: 24 Lecture, 32 Laboratory total. Application of the basic techniques of drawing a descriptive garment trade sketch and development of skills in presentation drawing and fashion illustration. The importance of body proportion, garment style lines, drape of fabric and textural interest will be emphasized.

## Fashion Design Merchandising 111B

## Fashion Illustration

Unit(s): 2.0
Class Hours: 16 Lecture, 40 Laboratory total. Prerequisite: Fashion Design Merchandising 111A.

Further fashion illustration techniques including color media, camera ready skills, and design of layouts. Focus on Croquis Development and alternative customers.
E.G. Children, Maternity, Men, and/or Plus size.

Fashion Design Merchandising 111C Fashion Portfolio Development
Unit(s): 2.0
Class Hours: 24 Lecture, 32 Laboratory total. Prerequisite: Fashion Design Merchandising 111A.

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.

Fashion Design Merchandising 112
Advanced Flat Pattern Marking (Formerly:

## Pattern Drafting

Unit(s): 3.5
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. Suggested preparation: Fashion Design Merchandising 053 or 105A and 105B

## Fashion Design Merchandising 113

## Fashion Draping

Unit(s): 3.0
Class Hours: 48 Lecture, 32 Laboratory total. 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. Suggested preparation: Fashion Design Merchandising 105A and 105B.

## Fashion Design Merchandising 125

Display Merchandising
Unit(s): 3.0
Class Hours: 40 Lecture, 16 Laboratory total. Visual merchandise techniques and material in relation to the elements and principles of design.

Fashion Design Merchandising 212
Advanced Draping
Unit(s): 2.0
Class Hours: 16 Lecture, 48 Laboratory total. Prerequisite: Fashion Design Merchandising 113 with a grade of C or better. Fashion design merchandising draping techniques further practiced in woven knits and motif fabrics in designing a line grouping.

Fashion Design Merchandising 213
Apparel Line Production
Unit(s): 2.0
Class Hours: 16 Lecture, 48 Laboratory total. Prerequisite: Fashion Design Merchandising
100 or 108, and 109 and 111A with a grade
of C or better.
Instruction on designing a line using
industry production techniques and equipment, including sketch, pattern and construction.

Fashion Design Merchandising 214
Manufacturing and Grading
Unit(s): 2.0
Class Hours: 16 Lecture, 48 Laboratory total. Introduction and application of garment industry manufacturing processes using production equipment to mass produce a consumer targeted product. Included are grading techniques for sizing a sample pattern. Suggested preparation: Fashion Design Merchandising 100, 105B, 108, 109, and 213. May be repeated.

Fashion Design Merchandising 215
Computer Fashion Illustration
Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total. Computerized fashion illustration is taught using Lectra computer software. Student needs to know how to manually draw trade flats and posed figures prior to enrolling. Suggested preparation: Fashion Design Merchandising 111A. May be repeated.
Fashion Design Merchandising 216
Computer Pattern Design, Grading and Marking
Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total. Computerized apparel pattern drafting, size grading and marking are taught using Lectra Modaris and Diamino computer software as tools. Prior to enrollment, student must be able to manually draft patterns, grade patterns and layout markers. Suggested preparation: Fashion Design Merchandising 109 and 214. May be repeated.

Fashion Design Merchandising 299
Cooperative Work Experience Education
Unit(s): 1.0-4.0
Class Hours: 6 Lecture, 240 Lecture total.
Prerequisite: 12 units of Fashion Design
Merchandising courses completed.
Supervised fashion field experience with new tasks in major. Students can earn 1 unit of credit for 60 hours worked up to 240 hours for 4 units. May be repeated. Grade: Pass/No Pass Only.

## FIRE ACADEMY (FAC)

## Fire Academy 007

Orientation and Physical Fitness
Unit(s): 2.5
Class Hours: 8 Lecture, 96 Laboratory total.
Prerequisite: Concurrent enrollment in Fire
Academy 050 or 060 .
An orientation and physical fitness course to include introduction to the Basic Fire Academy, rules and regulations, procedures, safety and participation in physical fitness program. Grade: Pass/No Pass Only.

## Fire Academy 008

Firefighter I Physical Ability Examination
Unit(s): 0.1
Class Hours: 2 Lecture, 2 Laboratory total. Designed to assess fire specific physical ability requirements. Successful completion of this course is required for entrance into the basic fire academy FAC060. Grade: Pass/No Pass Only.

## Fire Academy 009

Basic Wellness \& Fitness Assessment for

## Public Safety Personnel

Unit(s): 2.0
Class Hours: 12 Lecture, 96 Laboratory total. Basic individualized physical fitness assessment and exercise program development for police and fire personnel. May be repeated. 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 Physical Ability test. Evaluate instructor's ability to administer physical ability test. Grade: Pass/No Pass Only.

Fire Academy 018A
Firefighter I Physical Ability Practice (Exam)
(Formerly: Fire Academy 008A)
Unit(s): 0.1-0.3
Class Hours: 6 Lecture, 6 Laboratory total. Training designed specifically for fire service and those interested in entering the fire service. Assists the student in developing the physical abilities and skills to perform better on fire department physical ability test. May not be used to obtain eligibility for the basic fire academy. Grade: Pass/No Pass Only.

Fire Academy 018B
Beginning Fire Physical Ability Training
(Formerly: Fire Academy 008B, Beginning
Physical Ability Training)
Unit(s): 0.2-1.3
Class Hours: 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. Open Entry/Open Exit. Grade: Pass/No Pass Only.

## Fire Academy 018C

Intermediate Fire Physical Ability Training (Formerly: Fire Academy 008C, Intermediate Physical Ability Training)
Unit(s): 0.2-1.3
Class Hours: 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. Open Entry/ Open Exit. Grade: Pass/No Pass Only.

Fire Academy 018D
Advanced Fire Physical Ability Training
(Formerly: Fire Academy 008D, Advanced
Physical Ability Training)
Unit(s): 0.2-1.3
Class Hours: 64 Laboratory total.
Students will practice and conditon 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. Open Entry/ Open Exit. Grade: Pass/No Pass Only.

Fire Academy 031
Fire Specialist Academy, Vehicle Rescue And Extrication
Unit(s): 0.3
Class Hours: 8 Lecture, 8 Laboratory total. A course in rescue incident management and includes police coordination/cooperation, assessment, triage, extrication, field equipment, stabilization. Grade: Pass/No Pass Only.

Fire Academy 033
Swift Water Rescue
Unit(s): 0.3
Class Hours: 8 Lecture, 8 Laboratory total.
Water Rescue equipment and practices at a First Responder level. May be repeated. Grade: Pass/No Pass Only.

Fire Academy 035
Confined Space Rescue: Operational
Unit(s): 1.0
Class Hours: 23 Lecture, 17 Laboratory total. Prepares emergency responders for confined space entry and rescue. Meets CFSTES guidelines for professional certification. May be repeated. Grade: Pass/ No Pass Only.

## Fire Academy 041A

## Reserve Firefighter Academy

Unit(s): 3.5
Class Hours: 144 Lecture, 22 Laboratory total.

Basic and predictable level of knowledge, skills and ability among those individuals destined for assignment to an operational fire crew. Includes EMS and HazMAT First Responder. Meets minimum departmental requirements for safety. May be repeated. Grade: Pass/No Pass Only.

## Fire Academy 050

Fire Suppression Training Academy
Unit(s): 12.0
Class Hours: 266 Lecture, 294 Laboratory total.
Prerequisite: Concurrent enrollment in Fire Academy 007. Medical exam in accordance with NFPA 1582 and Fire Academy 008.

Does not meet requirements of OCFCA or California State Firefighter I criteria. Grade: Pass/No Pass Only.

Fire Academy 052
Flashover
Unit(s): 0.2
Class Hours: 3 Lecture, 5 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. May be repeated. Grade: Pass/No Pass Only.

Fire Academy 060
Basic Fire Academy
Unit(s): 12.0
Class Hours: 266 Lecture, 294 Laboratory total.
Prerequisite: Grade C or better in Fire Technology 101, 102, 103, 104, 105, 106, 121 (121L must also receive a $\mathrm{P}=$ pass); Fire Academy 008; EMT 100; meet NFPA 1582 medical examination, concurrent enrollment in Fire Academy 007, and certification in the State of California as an EMT.

California State Board of Fire Services/ Firefighter I approved, criteria available.

## Fire Academy 061

Basic Fire Academy Validation
Unit(s): 0.3
Class Hours: 16 Laboratory total. Assessment for OCFCA Entry Level Standards. May be repeated. Grade: Pass/ No Pass Only.

Fire Academy 062
Basic Incident Command Systems
Unit(s): 0.3
Class Hours: 16 Lecture total.
Basic principles of command, knowledge and skills common to all positions in the Incident Command System. May be repeated. Grade: Pass/No Pass Only.

## Fire Academy 062A

Strike Team Leader Orientation (ICS)
Unit(s): 0.2
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 062B

ICS-300 Intermediate ICS
Unit(s): 0.5
Class Hours: 24 Lecture total.
ICS-300 Expanded ICS with more description and detail of the organization and operation of the incident command system. Topics include management of resources, duties of positions, examples of how the essential principles are used in incident or event planning. May be repeated. Grade: Pass/No Pass Only.

Fire Academy 062C
ICS-400 Incident Command
Unit(s): 1.0
Class Hours: 24 Lecture total.
ICS-400 Expanded ICS. Topics include Command and General Staff, Unified Command, Major Incident Management, Area Command, Multi-Agency Coordination, ICS for Executives. May be repeated. Grade: Pass/No Pass Only.

Fire Academy 063
Heavy Rescue Systems 1
Unit(s): 0.8
Class Hours: 20 Lecture, 20 Laboratory total. Specialized technical information regarding the analysis of rescue problems, preparation procedures and the execution of rescue techniques. May be repeated. Grade: Pass/No Pass Only.

## Fire Academy 063A

Heavy Rescue Systems 2
Unit(s): 0.8
Class Hours: 20 Lecture, 20 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

HERS - Heavy Rigging and Equipment Specialist
Unit(s): 0.5
Class Hours: 6 Lecture, 18 Laboratory total. This course is designed to prepare firefighters in HERS-HEAVY RIGGING AND EQUIPMENT SPECIALIST deployment when working with FEMA. Meets Orange County, L.A. City Fire Chiefs, and State Fire Marshall's certification and FEMA standards. May be repeated. Grade: Pass/ No Pass Only.

Fire Academy 071A
Ventilation Review
Unit(s): 0.3
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
Unit(s): 0.5
Class Hours: 12 Lecture, 12 Laboratory total. Designed to equip students with information, techniques and methods for utilizing rope, webbing, hardware, friction devices, and stretchers in low angle, over-the-side rope rescue situations. May be repeated. Grade: Pass/No Pass Only.

Fire Academy 076A
High Angle Rope Rescue
Unit(s): 0.5
Class Hours: 14 Lecture, 10 Laboratory total. Designed to equip student with information, techniques and methods for utilizing rope, webbing, hardware, friction devices, and stretchers in high angle/ high rise rope rescue situations. Grade: Pass/No Pass Only.

Fire Academy 079A
Division/Group Supervisor
Unit(s): 0.3
Class Hours: 16 Lecture total. Designed for fire personnel qualifying within the incident command system as a division group supervisor. Course focuses on the management skills required of a division group supervisor. Grade: Pass/ No Pass Only.

## Fire Academy 079B

S-330 Task Force-Strike Leader
Unit(s): 0.5
Class Hours: 24 Lecture total. 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. May be repeated. Grade: Pass/No Pass Only.

Fire Academy 079D
I-440 Planning Section Chief
Unit(s): 1.0
Class Hours: 40 Lecture total. Designed for Fire Personnel qualifying within the Incident Command System as a Planning Section Chief. Course focuses on the management skills required of a Planning Section Chief. 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): 0.2

Class Hours: 8 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 Academy 080D

S-290 Intermediate Wildland Fire Behavior
Unit(s): 0.8
Class Hours: 32 Lecture total
Designed to meet training requirements to work in the ICS Operations Section as a Single Resources Boss. This is a "skill" course that is designed to instruct prospective fire line supervisors in wildland fire behavior for effective and safe fire management operations. Grade: Pass/No Pass Only.

## Fire Academy 084

Hazardous Materials First Responder
Unit(s): 0.5
Class Hours: 24 Lecture total.
Emphasis on specific, practical information necessary for a first responder to correctly handle a hazardous materials initial response.

## Fire Academy 084A

First Responder "operational"

## Decontamination

Unit(s): 0.2
Class Hours: 4 Lecture, 4 Laboratory total. To provide students with an understanding of the knowledge necessary to perform in a safe and competent manner to limit the spread of contamination. Grade: Pass/No Pass Only.

Fire Academy 200
Fire Public Education Officer 1
Unit(s): 1.0
Class Hours: 40 Lecture 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 Academy requirements.

Fire Academy 231A
Fire Prevention Officer 1A
Unit(s): 1.0
Class Hours: 40 Lecture total.
Skills and knowledge necessary for performing fire company inspections. California State Board of Fire Services Standards for Fire Prevention Officer I and Public Education Officer 1.

Fire Academy 231B
Fire Prevention Officer 1B
Unit(s): 1.0
Class Hours: 40 Lecture total.
Advanced skills and knowledge for certified Fire Officer, certified Fire Prevention Officer I, and certified Public Education Officer I candidates.

Fire Academy 231C
Fire Prevention Officer 1C
Unit(s): 1.0
Class Hours: 40 Lecture total.
Meets NFPA 1031 Fire Inspector
Professional Qualifications and California State Board of Fire Services Standards for Fire Prevention Officer IC.

Fire Academy 232A
Fire Prevention Officer 2A
Unit(s): 1.0
Class Hours: 40 Lecture total. Meets NFPA 1031 Fire Inspector Professional Qualifications and California State Board of Fire Services standards for Fire Prevention Officer 2A.

Fire Academy 232B
Fire Prevention Officer 2B
Unit(s): 1.0
Class Hours: 40 Lecture total.
Interpreting the UBC and CCR - Titles 19 and 24. Meets NFPA 1031 Fire Inspector Professional Qualifications and California State Board of Fire Services standards for Fire Prevention Officer 2B.

Fire Academy 232C
Fire Prevention 2C: Special Hazard
Occupancies
Unit(s): 1.0
Class Hours: 40 Lecture total.
Fire Protection regulation, design and inspection of special hazard occupancies. Meets NFPA 1031 Fire Inspector Professional Qualifications and CFSTES standards for Fire Prevention Officer II. May be repeated.

Fire Academy 233A
Fire Prevention 3A
Unit(s): 1.0
Class Hours: 40 Lecture total.
Specialized and technical information regarding fire protection sprinkler design. This course will review the mathematics and drafting skills necessary to design systems. Grade: Pass/No Pass Only.

Fire Academy 233B
Fire Prevention Officer 3B
Unit(s): 1.0
Class Hours: 40 Lecture total. Advanced and technical information regarding fire protection sprinkler design. This course will review the mathematics and drafting skills necessary to design systems.

Fire Academy 241A
Training Instructor 1A (Formerly: Fire
Instructor 1A)
Unit(s): 1.0
Class Hours: 40 Lecture 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 Academy 241B
Training Instructor 1B (Formerly: Fire Instructor 1B)
Unit(s): 1.0
Class Hours: 40 Lecture total.
A continuation of Fire Academy 241A
with emphasis on preparation to train others in technical skills as stipulated for Fire Officer I candidates.

Fire Academy 241C
Instructor Certification
Unit(s): 0.2
Class Hours: 8 Lecture total.
Prerequisite: Fire Academy 241B.
Designed for instructors desiring certification as an instructor for the California State Fire Education Systems (CFSTES). Grade: Pass/No Pass Only.

Fire Academy 242A
Fire Instructor 2A
Unit(s): 1.0
Class Hours: 40 Lecture total.
Knowledge and skills for instructors with emphasis on techniques of evaluation, test planning, constructing and using manipulative tests, test analysis, and maintaining test records.

Fire Academy 242B
Fire Instructor 2B
Unit(s): 1.0
Class Hours: 40 Lecture total.
Knowledge and skills for instructors with emphasis on conference leading and instructional planning, media resources, utilization and production, static displays, group discussion and problem solving techniques, brainstorming sessions, and group dynamics.

Fire Academy 242C
Fire Instructor 2C
Unit(s): 1.0
Class Hours: 40 Lecture total.
Knowledge and skills for instructors with emphasis on audio visual techniques, instructional planning, media resources, utilization and production, static displays.
Fire Academy 243
Fire Instructor 3 (Master Instructor)
Unit(s): 1.0
Class Hours: 40 Lecture total.
Designed to assist instructors in certifying as a master instructor.

## Fire Academy 251A

Fire Investigation 1A
Unit(s): 1.0
Class Hours: 40 Lecture total.
Fire origin and cause, evidence preservation, prosecution, maintaining records, and handling special arson and investigation problems.

Fire Academy 251B
Fire Investigation 1B
Unit(s): 1.0
Class Hours: 40 Lecture total.
Provides intermediate level knowledge and skills for fire cause determination, crime scene investigation, witnesses, evidence, and case presentation in court prosecutions.

Fire Academy 252A
Fire Investigation 2A
Unit(s): 1.0
Class Hours: 40 Lecture total.
Crime scene investigation, field interrogation of witnesses/suspects, preparation of evidence in court prosecutions.

Fire Academy 252B
Fire Investigation 2B
Unit(s): 1.0
Class Hours: 40 Lecture total
This course will train students how to properly investigate all types of fire incidents. They will learn fire scene examination, how to prepare investigation reports and prepare a case for trial. This course will satisfy the Fire Investigation certificate track. May be repeated.

Fire Academy 261
Fire Management I
Unit(s): 1.0
Class Hours: 40 Lecture total.
Assists future fire officers with the changing role of fire managers and helps fire officers develop techniques for management skills.

Fire Academy 262A
Fire Management 2A, Leadership and
Effective Communication
Unit(s): 1.0
Class Hours: 40 Lecture total.
Review modern industrial psychology and behavioral management, use of interaction exercises, simulations, and case studies, basic principles that can be applied on a job.

Fire Academy 262B
Fire Management 2B: Financial Management
Unit(s): 1.0
Class Hours: 40 Lecture total.
Financial management issues, theories and methodologies for fire departments. Meets CFSTES standards for Chief Fire Officer. May be repeated.

Fire Academy 262C
Fire Management 2C, Personnel and Labor

## Relations

Unit(s): 1.0
Class Hours: 40 Lecture total
Advanced knowledge and insights of fire personnel issues, human resources management, diversity, legal mandates, labor relations and related areas.

Fire Academy 262D
Fire Management 2D, Master Planning
Unit(s): 1.0
Class Hours: 40 Lecture total.
Program planning, master planning, forecasting, system analysis and design, policy analysis.
Fire Academy 262E
Fire Management 2E, Contemporary Issues
And Concepts
Unit(s): 1.0
Class Hours: 40 Lecture total. Overview of contemporary management issues and concepts, including governmental relations, changing settings, policy formation, program management, personnel and labor relations, the legal environment.

Fire Academy 271A
Fire Command 1A
Unit(s): 1.0
Class Hours: 40 Lecture total. Command and control techniques, emphasizing decision making, authority, organizational structure, pre-planning. Meets Fire Officer I requirements established by California State Board of Fire Services.

Fire Academy 271B
Fire Command 1B
Unit(s): 1.0
Class Hours: 40 Lecture total.
Deals specifically with hazardous materials and emergency incident procedures. Meets Fire Officer I command training requirements established by California State Board of Fire Services.

## Fire Academy 271C

Fire Command 1C
Unit(s): 1.0
Class Hours: 40 Lecture total.
Duties and responsibilities of the Company Officer as they relate to I-Zone emergencies. The fundamental elements of size up, strike team duties and command structure in the I-Zone. May be repeated.

Fire Academy 272A
Fire Command 2A, Command Tactics At
Major Fires
Unit(s): 1.0
Class Hours: 40 Lecture total.
Prepares the officer to use management techniques and the I.C.S. when commanding multiple alarms or large combat forces.

Fire Academy 272B
Fire Command 2B, Management of Major
Hazardous Materials Incidents
Unit(s): 1.0
Class Hours: 40 Lecture total.
Managing major hazmat responses with considerations for liabilities, ligation, legislation, scientific resources and community needs.

Fire Academy 272C
Fire Command 2C, High Rise Fire Tactics Unit(s): 1.0
Class Hours: 40 Lecture total.
Contains topics relative to: California high rise fire problems, high rise fire behavior, initial attack methods, using support equipment, using building plans, strategy and tactics, safety concerns.

Fire Academy 272D
Fire Command 2D, Planning for Large Scale Disasters
Unit(s): 1.0
Class Hours: 40 Lecture total.
Principles of disaster planning, using emergency operations centers, Federal OES, case studies of natural and manmade disasters.

Fire Academy 273B
Command 2E, Wildland Firefighting Tactics
Unit(s): 1.0
Class Hours: 40 Lecture total.
Contains topics relative to: California wildland fire problems, wildland fire behavior, initial attack methods, using support equipment, using topographic maps, strategy and tactics, air attack operations.

## 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
(Formerly: Division/Group Supervisor S-339)
Unit(s): 0.5
Class Hours: 24 Lecture total. Designed for Fire Personnel qualifying within the Incident Command System as a Division Group Supervisor. Course focuses on the management skills required of a Division Group Supervisor. 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 Training Specialist
Unit(s): 0.2
Class Hours: 16 Lecture total.
This course is designed to train personnel to perform the training specialist position as it relates to ICS organizational elements. Describes terminology, staffing considerations and reporting relationships.

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 Lecture 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. May be repeated. Grade: Pass/ No Pass Only.
Fire Officer Training 078
S-230 Crew Boss (Single Resource)
Unit(s): 0.7
Class Hours: 32 Lecture total.
Designed for Fire Personnel qualifying within the Incident Command System as a Crew Boss (Single Resource). Topics include: Strike team orientation; incident responsibilities; and demobilization/ release. 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 firefight-
ing 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): 0.7
Class Hours: 32 Lecture total. 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 effecting helicopter landing. Grade: Pass/No Pass Only.

## Fire Officer Training 078D

ICS 223-10, Wildland Line Emt
Unit(s): 0.3
Class Hours: 16 Lecture total.
Designed to train firefighters in preserving health and safety of suppression team members during wildland incidents and make available EMT-1 level care in the field. 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 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 as an Engine Boss. Not offered every semester. Grade: Pass/No Pass Only.

Fire Officer Training 079C
S-330 Task Force-Strike Team Leader
Unit(s): 0.5
Class Hours: 24 Lecture total.
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 085B
Paramedic Continuing Education
Unit(s): 0.3
Class Hours: 16 Lecture total.
This course is a 16 -hour course of instruction under the LA County EMS program, with associated drug administration, cardiac rhythm interpretation, and systemic trauma training. This course meets departmental requirements for paramedic training. May be repeated. Grade: Pass/ No Pass Only.

Fire Officer Training 100
Fire Service EMT-1
Unit(s): 3.0
Class Hours: 105 Lecture, 39 Laboratory total.

State Fire Marshal certified EMT-1 training with emphasis on patient rescue skills in the Fire Science environment. Includes AED training and CPR. May be repeated.

## FIRE TECHNOLOGY (FTC)

Fire Technology 101
Fire Protection Organization
Unit(s): 3.0
Class Hours: 48 Lecture total.
Survey of career opportunities in fire service and related fields, history of fire protection; fire loss analysis; public, quasi-public and private fire protection services; specific fire protection functions; fire chemistry and physics.

Fire Technology 102

## Fire Behavior and Combustion

Unit(s): 3.0
Class Hours: 48 Lecture total. Fundamentals and scientific principles of fire behavior, combustible materials, extinguishing agents, hazardous and toxic materials, and fire prevention/suppression techniques.

Fire Technology 103
Personal Fire Safety
Unit(s): 3.0
Class Hours: 48 Lecture total.
Provides career directed students, paid/ or volunteer firefighters, and fire brigade members demonstrations on current techniques in the prevention of injuries and promotion of safety while conducting routine and emergency fire operations.

## Fire Technology 104

Fire Prevention Technology
Unit(s): 3.0
Class Hours: 48 Lecture total
Prerequisite: Fire Technology 101 and 102
with minimum grade of C .
Organization and function of fire prevention; inspections; surveying and mapping procedures; recognition of fire and life hazards; engineering a solution of a fire hazard; enforcing solutions to a fire hazard; public relations as affected by fire prevention.

## Fire Technology 105

Bldg Construction for Fire Protection
Unit(s): 3.0
Class Hours: 48 Lecture total
Prerequisite: Fire Technology 101 and 102
with minimum grade of C .
The components of building construction that relate to fire safety. Elements of construction and design of structures. The development and evolution of building and fire codes.

Fire Technology 106
Fire Protection Equipment and Systems
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Fire Technology 101 and 102
with minimum grade of C .
Portable fire extinguishing equipment; protection systems for special hazards; sprinkler systems and fire detection and alarm systems.

## Fire Technology 121

Physical Fitness for Public Safety Personnel
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: 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 topic include the FITT principle, specificity and injury prevention and treatment.

Fire Technology 121L
Physical Fitness for Public Safety Personnel -
Performance and Assessment
Unit(s): 0.3
Class Hours: 16 Laboratory total.
Prerequisite: Concurrent enrollment in Fire Technology 121.

Student will participate in fire, fitness and nutrition specific activities. Focus is on skills and preparation for job requirements. Students will be advised of the specific dates and times for the lab/ PAT sessions during first lecture period. Grade: Pass/No Pass Only.

## FRENCH (FREN)

## French 101

## Elementary French

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.

## French 102

Elementary French II
Unit(s): 5.0
Class Hours: 80 Lecture total.
Prerequisite: French 101 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.

## French 198

## Topics in French

Unit(s): 0.5-3.0
Class Hours: 48 Lecture total.
A specialized course on topics related to current needs of students.

## French 201

## Intermediate French I

Unit(s): 5.0
Class Hours: 80 Lecture total.
Prerequisite: Grade of C or better in French
102 or three years of high school French.
A college level French class focusing on
expansive review of usage and grammar; discussion in French of interpretive reading material; conversation and composition.

## French 201H

Honors Intermediate French I
Unit(s): 5.0
Class Hours: 80 Lecture total.
Prerequisite: French 102 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.

## French 202

## Intermediate French II

Unit(s): 5.0
Class Hours: 80 Lecture total.
Prerequisite: French 201, or four years of high school French with a grade of C or better.

A college level French class focusing on a specialized review of grammar and composition; discussions in French of history and culture based on literary materials.

## French 202H

## Honors Intermediate French II

Unit(s): 5.0
Class Hours: 80 Lecture total.
Prerequisite: French 201/201H, or four years of high school french, 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. Independent research by students to use and evaluate library and electronic information sources.

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 .
Intermediate conversational techniques. A review of language structure through discussion, conversation, reading and composition. Discussions of French culture and civilization.

## French 214

Intermediate Conversation and Composition

## II

Unit(s): 2.0
Class Hours: 32 Lecture total.
Prerequisite: French 201 with a grade of C or
better 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.

## GEOGRAPHY (GEOG)

Geography 100
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.

## Geography 100H

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.

## Geography 101

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.

## Geography 101L

Physical Geography Laboratory
Unit(s): 1.0
Class Hours: 48 Laboratory total.
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.

## Geography 102

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.

## GEOLOGY (GEOL)

## Geology 101

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.

## Geology 101L

Introduction to Geology Laboratory
Unit(s): 1.0
Class Hours: 48 Laboratory total.
Prerequisite: Geology 101 or concurrent enrollment.

Study of the common minerals and rocks.
Map reading and interpretation of geol-
ogy using topographic maps, geologic
maps and aerial photos.
Geology 111
Dinosaurs and the Geology of the Mesozoic
Era
Unit(s): 1.0
Class Hours: 16 Lecture total.
Study of the classification, evolution, and characteristics of the major groups of dinosaurs and other contemporary life with emphasis on the mass extinctions at the end of the Mesozoic era. Required, one-day field trip.

## 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.

## Geology 140

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.

## 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).

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 topog-
raphy, sediments, circulation, shoreline processes, biological productivity and mineral resources. (Same as Earth Science 150H).

## Geology 161

Geological Field Studies of the Southern San Andreas Fault
Unit(s): 1.0
Class Hours: 16 Lecture total.
Field study of the geology ecology and history of the southern section of the San Andreas Fault, from the Garlock Fault to the Salton Sea. Mandatory orientation along with two days of field study. May be repeated.

## 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.

## Geology 163

Geological Field Studies of the Northern San Andreas Fault
Unit(s): 2.0
Class Hours: 32 Lecture total.
Field study of the geology, ecology and history of the San Andreas Fault from the Garlock Fault to Point Reyes. Mandatory orientation along with a five day field study.

## 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.

## Geology 165

Geologic Field Studies of the Western 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 western Mojave Desert region. Mandatory orientation along with a two-day field study. May be repeated.

Geology 166
Geologic Field Studies of the Sierra Nevada
Unit(s): 2.0
Class Hours: 32 Lecture total.
A study of the geologic history, structure, and tectonics of the Sierra Nevada.
Mandatory orientation along with a fiveday field trip. May be repeated.

## Geology 167

Geologic Field Studies of the Eastern 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 eastern Mojave Desert region. Mandatory orientation along with a two-day field study. May be repeated.

## 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.

## 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.

## 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.
Geology 171
Geology 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.

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 fiveday field study. May be repeated.

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.

## 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.

## Geology 176

Geologic Field Studies of the San Bernardino and San Gabriel Mountains
Unit(s): 1.0
Class Hours: 16 Lecture total.
A study of the rocks, structure, tectonics, and geologic history of the San
Bernardino and San Gabriel Mountains
Mandatory orientation along with two one-day field trips. May be repeated.

Geology 201
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.

## HISTORY (HIST)

## History 101

World Civilizations to the 16th Century
Unit(s): 3.0
Class Hours: 48 Lecture total.
Development of world civilizations and their interrelationships from the earliest beginnings to the sixteenth century. Basic ideas, institutions, personalities, and artistic achievements of these societies.

## History 101H

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 and or above.

An enriched approach designed for honors students with emphasis on individual research as well as small group analysis of historical problems. Development of world civilizations and their interrelationships from the earliest beginnings to the sixteenth century. Basic ideas, institutions, personalities, and artistic achievements of these societies.

## History 102

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.

History 102H
Honors World Civilizations Since the 16th

## Century

Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: High School or college G.P.A. 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.

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.)

## 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.

## 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.

## History 120H

Honors the United States to $\mathbf{1 8 6 5}$
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: A high school or college GPA of 3.0 and 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.

History 121
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.

## History 121H

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 and 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.

## 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 MexicanAmerican 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.
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 and 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 MexicanAmericans to other cultural groups.

## 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. (Same as Anthropology 125.)

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.
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.

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.

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.

## 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.

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.

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.

History 181
Survey of Chicana/Latina Women's History
Unit(s): 3.0
Class Hours: 48 Lecture total.
Survey of the historical roots of modernday 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.

## HUMAN DEVELOPMENT (HUD)

## Human Development 070

Early Childhood Education: Introductory

## Principles \& Practices (DS3)

Unit(s): 3.0
Class Hours: 48 Lecture total.
Bilingual (Spanish/English) course designed to introduce Spanish speaking students who are considering a career as teachers or aides to the scope of early childhood education. This class meets state licensing requirements for aides and limited-English caregivers in Early Childhood Education programs. Suggested Preparation: Beginning ESL 2. May be repeated.

## Human Development 102

Exploring Parenting (Formerly: Exploring
Parenting Processes)
Unit(s): 3.0
Class Hours: 48 Lecture total.
A comprehensive introduction to parenting that demonstrates how parents and caregivers interact to translate their feelings, care, and nurturing of children into effective parenting/caregiving behaviors. Designed to acquaint caregivers and parents with brain-age appropriate parenting and/or caregiving strategies to enhance the development of children from birth through adolescene.

Human 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.

## Human Development 108A

Observation and Assessment for Early
Learning and Development
Unit(s): 3.0
Class Hours: 48 Lecture total
Prerequisite: Human Development 107.
Negative TB Test (must be completed before observations take place during the semester).

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.
Human Development 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. Socialization processes and identity development that support and empower families by showing the importance of respectful, reciprocal relationships will be explored.

## Human Development 111A <br> Principles and Practices of Teaching Young Children

Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Human Development 107 and 108A. Negative TB Test (need to complete before observation during the course).

This course examines the underlying historical and theoretical principles, and the developmentally appropriate practices of early childhood programs and environments. Emphases 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.

## Human Development 111B

Introduction to Curriculum for Young Children
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Human Development 108A and 111A. Negative TB Test

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.

Human Development 112
Health, Safety and Nutrition for Children
Unit(s): 3.0
Class Hours: 48 Lecture total.
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 must show proof of negative TB test results. Field trips to local child development centers may be included. Suggested preparation: Six units of human development classes

Human Development 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. 20+ hours service learning hours required in addition to lecture hours. Student must provide proof of negative TB screening.

## Human Development 114

 Careers in TeachingUnit(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.)

Human Development 116A
Infant/Toddler Growth and Development (DS4)
Unit(s): 3.0
Class Hours: 48 Lecture, 6 Laboratory total.
Prerequisite: Human Development 107. Examination of the growth and developmental patterns of infants and toddlers and interactions with culturally diverse family structures. Meets licensing requirement. With Human Development 116B, this class fulfills infant/toddler specialization for Child Development Master Teacher Permit.

Human Development 116B
Programming for Infants and Toddlers (DS4) Unit(s): 3.0
Class Hours: 48 Lecture, 3 Laboratory total.
Prerequisite: Human Development 107.
Focuses on the implementation of quality, developmentally appropriate, infant/ toddler programs, including curriculum, environment, planning and interactions among staff, children and parents. Cultural sensitivity to the diversity of staff and families within such programs will be addressed. Meets licensing requirement. With Human Development 116A, this course fulfills Infant/Toddler Specialization for Child Development Master Teacher permit.

Human Development 120
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.

## Human Development 121

School Age Child Care Activities (DS5)
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Human Development 120. Focus on school age creative activities including planning and implementing an appropriate before and after school curriculum. Attention will be paid to integrating academics, recreation and creative activities suitable for school age child care programs.

Human Development 200
Computer Literacy for Early Childhood
Educators
Unit(s): 3.0
Class Hours: 48 Lecture total.
An introduction to computer concepts and digital camera use strategies for child development teachers which will allow them to understand and evaluate the impact of technology as it relates to growth and development of children and developmentally appropriate practices. Basic knowledge and practice in computer operation, word processing, internet operation and research, e-mail and selecting software applications will be included.

Human Development 205
Exceptionality and Special Needs in Human

## Development

Unit(s): 3.0
Class Hours: 48 Lecture total
Study of diseases and disorders found in children resulting in exceptionality, including mental retardation; visual, speech, and hearing impairments; behavior disorders, learning disabilities and physical and health impairments. (Same as Special Services 205).

## Human Development 208

Working With Families of Children With
Special Needs
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Human Development 205. This course will provide teachers, intervention assistants, administrators and parents the tools necessary to support 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 empower the advocacy of parents.

Human Development 210
Creative Music Experiences for Young

## Children

Unit(s): 1.5
Class Hours: 24 Lecture total.
Explores the basics of musical expression through movement, songs, rhythm and listening activities as used in the Early Childhood curriculum. Includes the study of musical growth and development in young children.

Human 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 role of adult in fostering creativity.

## Human Development 215

Administration of Early Childhood Programs:

## Level I (DS6)

Unit(s): 3.0
Class Hours: 48 Lecture total. Application of the basic principles for the establishment, operation, supervision and evaluation of early care and education programs. Suggested preparation: 12 units in Human Development.

## Human Development 216

Administration of Early Childhood Programs:

## Level II (DS6)

Unit(s): 3.0
Class Hours: 48 Lecture total.
An examination of the complex role of the administrator of early care and education programs in the areas of establishing and maintaining program quality, selecting, hiring and supporting staff, establishing and facilitating parent, advisory and community relations, and operating a fiscally sound program. Suggested preparation: 12 units in Human Development.

## Human Development 220

## 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 Counseling 220)

## Human Development 221

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, selfexamination, and reflection on issues related to social identity, stereotypes and bias, social and educational access, media and schooling.

## Human Development 226

Developing Teaching Tools for the Preschool Class
Unit(s): 1.5
Class Hours: 24 Lecture total.
Emphasizes the importance of developing and using props and teaching aides for enhancing group times in the preschool classroom.

Human Development 229
Brain Development and Learning
Unit(s): 3.0
Class Hours: 48 Lecture total.
This class explores the development of the brain for children 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 or anyone interested in knowing more about how the organ of learning, the brain, operates.

## Human 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.

## Human Development 231

## Developing Language and Literacy in Young

Children
Unit(s): 3.0
Class Hours: 48 Lecture total.
Designed to introduce students to basic concepts of first and second language acquisition and literacy in young children including classroom applications.

Human Development 232
Math and Science Methods for Early Learning

## Environments

Unit(s): 3.0
Class Hours: 48 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. May be repeated.

Human Development 250
Adult Supervision/Mentor Teacher in Early Childhood Programs
Unit(s): 2.0
Class Hours: 32 Lecture total.
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.

Human Development 251
Mentor Seminar
Unit(s): 0.5
Class Hours: 12 Lecture total.
Prerequisite: Human Development 250. A series of pertinent, professional-interest seminars providing information, guidance and peer support for mentors in the California Early Childhood Mentor Program. May be repeated. Grade: Pass/ No Pass Only.

## Human Development 260

Youth in the Foster Care System
Unit(s): 3.0
Class Hours: 48 Lecture total.
This course is designed for students who want to gain knowledge of the foster care system. The course will examine the characteristics, challenges, and social issues that the foster care youth face in the social services system. This course will prepare students who are interested in pursuing careers in teaching, social work, and human services. May be repeated. Grade: Pass/No Pass Only.

## Human Development 298A

Practicum in Early Childhood Programs Unit(s): 3.5
Class Hours: 32 Lecture, 75 Laboratory total. Prerequisite: Human Development 111B
This is a Capstone Course to be taken after all other courses in this major (Courses include: Human Development 107, 108A, 110, 111A, 111B, 112, 200, 221, 231). 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.

## Human Development 298B

## Practicum in Infant/Toddler Programs

## Unit(s): 3.5

Class Hours: 32 Lecture, 75 Laboratory total. Prerequisite: Human Development 116B.
This is a Capstone Course to be taken after all other courses in this major. (Courses include: Human Development 107, 108A, 110, 112, 116A, 116B, 200, 221, 231). 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.

## Human Development 299

## Cooperative Work Experience Education

Unit(s): 1.0-4.0
Class Hours: 6 Lecture, 240 Lecture total.
Prerequisite: 2 units of Human Development courses completed.

Supervised field experience with school aged children including new tasks in major. Student can earn 1 unit of credit for 60 hours worked up to 240 hours for 4 units.

## INTERDISCIPLINARY STUDIES (IDS)

## Interdisciplinary Studies 117H

Honors Introduction to Global Studies
Unit(s): 3.0
Class Hours: 48 Lecture total.
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 computerbased 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.

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.

## 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, sexually transmitted infections.

## Interdisciplinary Studies 200

Introduction to Liberal Studies
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101 or 101 H with a grade of C or better

This survey course explores the historical foundations and interdisciplinary nature of Liberal Studies. We 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.

## 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.

## 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.

## KINESIOLOGY ACTIVITIES (KNAC)

## Kinesiology Activities 107

## Badminton

Unit(s): 0.5
Class Hours: 32 Laboratory total. Instruction and practice includes the development of basic skills, techniques, and rules and strategies.

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.

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, 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.

## Kinesiology Activities 140

Karate
Unit(s): 0.5
Class Hours: 32 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.

## Kinesiology Activities 140

## 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.

## Kinesiology Activities 150

Hatha Yoga
Unit(s): 0.5
Class Hours: 32 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.

## Kinesiology Activities 150

## 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.

## Kinesiology Activities 155

Self-Defense
Unit(s): 1.0
Class Hours: 48 Laboratory total. Instruction in personal safety and selfprotection 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.

## Kinesiology Activities 155

## Self-Defense

Unit(s): 0.5
Class Hours: 32 Laboratory total. Instruction in personal safety and selfprotection including the effective use of hands, knees, elbows, feet, and the mind. Proficiency with everyday objects as weapons and defense against common street weapons is also stressed.

## Kinesiology Activities 160

Tennis
Unit(s): 0.5
Class Hours: 32 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.

## Kinesiology Activities 160

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. Etiquette, court strategy, and rules will be covered in singles and doubles play. Tournament play will be introduced.

## Kinesiology Activities 169

## Wrestling

Unit(s): 0.5
Class Hours: 32 Laboratory total.
Fundamentals of wrestling skills and techniques. Take-downs, escapes, analysis of opponents strengths and weakness will also be considered. Student will master rules, regulations and ethics of the activity.

## Kinesiology Activities 169

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.

Kinesiology Activities 170
Yoga
Unit(s): 0.5
Class Hours: 32 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.

## Kinesiology Activities 170

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.

Kinesiology Activities 200
Intramural Sports-Basketball
Unit(s): 0.5
Class Hours: 32 Laboratory total. This class is designed to provide students with an opportunity to participate and compete against classmates in the sport of basketball.

Kinesiology Activities 200
Intramural Sports-Basketball
Unit(s): 1.0
Class Hours: 48 Laboratory total.
This class is designed to provide students with an opportunity to participate and compete against classmates in the sport of basketball. May be repeated. Grade: Pass/ No Pass Only.

Kinesiology Activities 211
Baseball - Off Season
Unit(s): 1.0
Class Hours: 48 Laboratory total.
Advanced fundamentals of fielding, throwing and hitting. Includes play situations with an emphasis on team offensive and defensive strategy.

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 competive activities are included.

Kinesiology Activities 220B
Intermediate Basketball
Unit(s): 1.0
Class Hours: 64 Laboratory total.
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 and as well as competitive play situations.

## Kinesiology Activities 220C

Advanced Basketball
Unit(s): 1.0
Class Hours: 48 Laboratory total.
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.

Kinesiology Activities 226
Water Polo
Unit(s): 0.5
Class Hours: 32 Laboratory total.
Instruction and experience in the fundamentals and strategies of water polo. May be repeated.

Kinesiology Activities 226
Water Polo
Unit(s): 1.0
Class Hours: 48 Laboratory total.
Instruction and experience in the fundamentals and strategies of water polo.

Kinesiology Activities 235
Speed and Agility
Unit(s): 0.5
Class Hours: 32 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.

Kinesiology Activities 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.

## Kinesiology Activities 236

Advanced Baseball Game Skills
Unit(s): 1.0
Class Hours: 48 Laboratory total.
This course is designed to prepare the student for intercollegiate baseball competition. Students will learn offensive skills, defensive skills and communication under competitive game conditions.

## Kinesiology Activities 260

Soccer
Unit(s): 0.5
Class Hours: 48 Laboratory total.
Practice of the game of soccer, including skills, groups and team tactics. Course focuses on improving performance in all aspects of the game: defense, midfield, attack and special situations.

## Kinesiology Activities 260A

Soccer-Beginning/Intermediate
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.

## Kinesiology Activities 260B

Soccer-Intermediate/Advanced
Unit(s): 1.0
Class Hours: 48 Laboratory total. 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.

## Kinesiology Activities 262

## Soccer-Men

Unit(s): 1.0
Class Hours: 48 Laboratory total.
A high-level, competitive, conditioning and skills program in soccer for male athletes with exceptional talent.

## Kinesiology Activities 265

Indoor Soccer
Unit(s): 0.5
Class Hours: 32 Laboratory total.
This course is a fast moving, action filled form of soccer played in a small indoor area. It is designed to place emphasis on techniques and tactics that are needed to perform in the sport of soccer.

## Kinesiology Activities 265A

Indoor Soccer - Beginning/Intermediate
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.

## Kinesiology Activities 265B

Indoor Soccer - Intermediate/Advanced
Unit(s): 1.0
Class Hours: 48 Laboratory total.
Prerequisite: KNAC 265A with a minimum grade of C

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.
Kinesiology Activities 290
Volleyball
Unit(s): 0.5
Class Hours: 32 Laboratory total.
Instruction and practice in fundamental skills techniques, strategies, basic rules, team offense and defense, and team concepts of Volleyball.

## Kinesiology Activities 290

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.

## Kinesiology Activities 292

Advanced Volleyball-Women
Unit(s): 0.5
Class Hours: 32 Laboratory total. An advanced volleyball course designed for female athletes who have intercollegiate, USA club, or varsity high school volleyball experience. Emphasis will be placed on advanced technical skill development, offensive and defensive systems analysis, and sport specific physical assessment and conditioning activities.

## Kinesiology Activities 292

## Advanced Volleyball-Women

Unit(s): 1.0
Class Hours: 48 Laboratory total. An advanced volleyball course designed for female athletes who have intercollegiate, USA club, or varsity high school volleyball experience. Emphasis will be placed on advanced technical skill development, offensive and defensive systems analysis, and sport specific physical fitness assessment and conditioning activities.

## KINESIOLOGY ADAPTED ACTIVITIES (KNAD)

## Kinesiology Adapted Activities 201

 Adapted SwimmingUnit(s): 1.0
Class Hours: 48 Laboratory total.
Prerequisite: Adapted Kinesiology Medical
Release Form required.
Emphasis will be on individually structured aquatic programs for students with disabilities.

Kinesiology Adapted Activities 202
Adapted Circuit Training
Unit(s): 0.5
Class Hours: 32 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. Grade: Pass/No Pass Only.

Kinesiology Adapted Activities 202A
Beginning Adapted Circuit Training
Unit(s): 1.0
Class Hours: 48 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.

Kinesiology Adapted Activities 202B
Intermediate Adapted Circuit Training
Unit(s): 1.0
Class Hours: 48 Laboratory total.
Prerequisite: KNAD 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. Meets general education requirement.

Kinesiology Adapted Activities 205
Adapted Badminton
Unit(s): 1.0
Class Hours: 48 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.

## Kinesiology Adapted Activities 208

Adapted Aerobic Fitness
Unit(s): 0.5
Class Hours: 32 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.

## Kinesiology Adapted Activities 208A

Beginning Adapted Aerobic Fitness
Unit(s): 1.0
Class Hours: 48 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.

Kinesiology Adapted Activities 208B
Intermediate Adapted Aerobic Fitness
Unit(s): 1.0
Class Hours: 48 Laboratory total.
Prerequisite: KNAD 208A with a minimum grade of C
Prerequisite: 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. Meets general education requirement.

## Kinesiology Adapted Activities 211

Adapted Aquatics
Unit(s): 0.5
Class Hours: 32 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. Grade: Pass/No Pass Only.

## Kinesiology Adapted Activities 211A

Beginning Adapted Aquatics
Unit(s): 1.0
Class Hours: 48 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. Meets general education requirement.

## Kinesiology Adapted Activities 211B

Intermediate Adapted Aquatics
Unit(s): 1.0
Class Hours: 48 Laboratory total.
Prerequisite: KNAD 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. Meets general education requirement.

## KINESIOLOGY AEROBIC FITNESS (KNAF)

## Kinesiology Aerobic Fitness 140

Walking/Jogging for Fitness
Unit(s): 0.5
Class Hours: 32 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.

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.

## Kinesiology Aerobic Fitness 143

Extreme Fitness
Unit(s): 0.5
Class Hours: 32 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).

Kinesiology Aerobic Fitness 143
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).

## Kinesiology Aerobic Fitness 144

Cross Training
Unit(s): 0.5
Class Hours: 32 Laboratory total.
This class will be comprised of aerobic classes designed to introduce the student to the concept of cross training and trying different work-outs. The class will be divided into four sections, cardio boxing, step aerobics, weight training and flexibility work-outs.

Kinesiology Aerobic Fitness 144
Cross Training
Unit(s): 1.0
Class Hours: 48 Laboratory total. This class will be comprised of aerobic classes designed to introduce the student to the concept of cross training and trying different work-outs. The class will be divided into four sections, cardio boxing, step aerobics, weight training and flexibility work-outs.

Kinesiology Aerobic Fitness 146
Stability Ball Training for Fitness
Unit(s): 0.5
Class Hours: 32 Laboratory total.
A core training and strenthening workout. A full body workout using stability balls, designed to obtain total toning and strength.

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.

Kinesiology Aerobic Fitness 146B
Intermediate Stability Ball Training
Unit(s): 1.0
Class Hours: 48 Laboratory total.
Prerequisite: KNAF 146A with a minimum grade of C

An intermediate core training and strengthening workout using stability balls and free weights (dumbbells) to build core strength and functional fitness. Designed to tone the entire body with special emphasis on progressively improving posture, balance, flexibility, core strength and coordination.

Kinesiology Aerobic Fitness 150
Stretch, Flex and Tone
Unit(s): 0.5
Class Hours: 32 Laboratory total. A combination of stretching and toning exercises to increase strength, flexibility, and overall body fitness.

Kinesiology Aerobic Fitness 150
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.

## Kinesiology Aerobic Fitness 156

Cardio Kickboxing
Unit(s): 0.5
Class Hours: 32 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.

## 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.

## Kinesiology Aerobic Fitness 156B

Intermediate Cardio Kickboxing
Unit(s): 1.0
Class Hours: 48 Laboratory total.
Prerequisite: KNAF 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 increaase 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.
Kinesiology Aerobic Fitness 157
Cardio Pump
Unit(s): 0.5
Class Hours: 32 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.

## Kinesiology Aerobic Fitness 157 <br> 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.

## KINESIOLOGY AQUATICS (KNAQ)

Kinesiology Aquatics 201

## Swimming

Unit(s): 0.5
Class Hours: 32 Laboratory total.
Instruction and experience in the basic stroke techniques and safety procedures of swimming. May be repeated.

## Kinesiology Aquatics 201

## Swimming

Unit(s): 1.0
Class Hours: 48 Laboratory total.
Instruction and experience in the basic stroke techniques and safety procedures of swimming.

## Kinesiology Aquatics 204

Lifesaving
Unit(s): 1.5
Class Hours: 16 Lecture, 32 Laboratory total.
Prerequisite: K.N. Aquatics 201 with a mini-
mum grade of C or Demonstrated proficien-
cy in KNAQ 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.

## Kinesiology Aquatics 206

Lap Swimming
Unit(s): 0.5
Class Hours: 32 Laboratory total.
Prerequisite: Student must demonstrate swimming skills.

Individualized swimming program designed to improve swimming techniques and cardiovascular fitness. Emphasis on endurance training.

## Kinesiology Aquatics 206

## Lap Swimming

Unit(s): 1.0
Class Hours: 48 Laboratory total.
Prerequisite: Student must demonstrate swimming skills. Individualized swimming program designed to improve swimming techniques and cardiovascular fitness. Emphasis on endurance training. May be repeated. Grade: Pass/No Pass Only.

# KINESIOLOGY FITNESS (KNFI) 

Kinesiology Fitness 100
Personal Fitness Evaluation
Unit(s): 0.5
Class Hours: 32 Laboratory total. Personal evaluation of your 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.

## Kinesiology Fitness 101A

Personal Fitness Evaluation I
Unit(s): 1.0
Class Hours: 48 Laboratory total.
Personal evaluation of your 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.

## Kinesiology Fitness 101B

Personal Fitness Evaluation II
Unit(s): 1.0
Class Hours: 48 Laboratory total.
Prerequisite: KNFI 101A with a minimum
grade of C must complete 101A
Intermediate personal evaluation of your fitness level. Each student completes appointments that evaluate flexibility, strength, blood pressure, body composition, pulmonary function, resting electrocardiogram, graded exercise test 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.

## Kinesiology Fitness 101C

## Personal Fitness Evaluation III

Unit(s): 1.0
Class Hours: 48 Laboratory total.
Prerequisite: KNFI 127B with a minimum grade of C must complete KNFI 101A and KNFI 101B.

Advanced personal evaluation of your 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.

## Kinesiology Fitness 102 <br> Personal Fitness Evaluation

Unit(s): 2.0
Class Hours: 96 Laboratory total.
Personal evaluation of your 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.
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, 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.

## 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.

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.

## Kinesiology Fitness 110A <br> 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, 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.

## 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.

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.

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.

## 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.

## 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.

Kinesiology Fitness 126A
Beginning Upper Body Power Development Unit(s): 1.5
Class Hours: 72 Laboratory total. An exercise program designed for football athletes who participate in intercollegiate athletics. Emphasis will be on the development of the upper body. Targeted muscle groups are the biceps, triceps, pectorals, deltoids and the trapezius.

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## Kinesiology Fitness 126C

Advanced Upper Body Power Development Unit(s): 1.5
Class Hours: 72 Laboratory total.
An advanced exercise program designed for added power and explosive movement as a result of resistance and plyometric training to the upper body and supporting muscle groups. Program will be designed for the individual who is advanced in strength training. Ideal for collegiate level athletes, personal trainers, and public safety officials including law enforcement and fire fighters who are looking to add power through weight training.

## Kinesiology Fitness 127A

Beginning Lower Body Power Development
Unit(s): 1.5
Class Hours: 72 Laboratory total.
A beginning exercise program designed for added power and explosive movement as a result of resistance and plyometric training. Emphasis will be on the development of the lower body. Targeted muscle groups are the gluteus, quadriceps, hamstrings and calf. Primary focus will be on proper safety procedures and techniques.
Kinesiology Fitness 127B
Intermediate Lower Body Power Development
Unit(s): 1.5
Class Hours: 72 Laboratory total.
An intermediate exercise program designed for added power and explosive movement as a result of resistance and plyometric training. Emphasis will be on the development of the lower body and supporting muscle groups. Sport specific movements and individual fitness goal setting will be introduced.

## Kinesiology Fitness 127C

Advanced Lower Body Power Development
Unit(s): 1.5
Class Hours: 72 Laboratory total.
An advanced exercise program designed for added power and explosive movement as a result of resistance and plyometric training to the lower body and supporting muscle groups. Program will be designed for the individual who is advanced in strength training. Ideal for collegiate level athletes, personal trainers, and public safety officials including law enforcement and fire fighters who are looking to add power through weight training.

## Kinesiology Fitness 145

Weight Training for Women
Unit(s): 1.0
Class Hours: 48 Laboratory total. An exercise and fitness program designed to improve the student's strength through the use of free weights. Emphasis will be on the development of muscular strength and endurance and overall physical fitness. May be repeated.

## 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.

## Kinesiology Fitness 147B

Intermediate Weight Training

## Unit(s): 1.0

Class Hours: 48 Laboratory total.
Prerequisite: KNFI 147A with a minimum grade of C

This course is designed for students to increase their knowledge and skills competence in large muscle area development utilizing free weights. Individualized exercise programs are designed to teach students intermediate level strategies and techniques. Development will be in muscle size or tone and strength or endurance.

## KINESIOLOGY HEALTH EDUCATION (KNHE)

## 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.

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

## 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.

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 KNHE 105 \& KNHE 107 equate to C-ID KIN 101.

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 KNHE 105 \& KNHE 107 equate to C-ID KIN 101.

## KINESIOLOGY INTERCOLLEGIATE ATHLETICS (KNIA)

Kinesiology Intercollegiate Athletics 103
(Formerly: Kinesiology Fitness 103)
Performance Evaluation for Athletes
Unit(s): 1.0
Class Hours: 48 Laboratory total. Evaluation of fitness levels for athletes. Each student will complete fitness testing in the areas of flexibility, strength, speed and agility, resting ecg, graded exercise test, and sport specific activities. May be repeated.

Kinesiology Intercollegiate Athletics 124
(Formerly: Kinesiology Fitness 124)
Conditioning for Athletes-Men
Unit(s): 1.0
Class Hours: 48 Laboratory total.
An exercise program designed for athletes who participate in men's sports. Emphasis will be on the development of speed, endurance, flexibility, and strength. May be repeated.

Kinesiology Intercollegiate Athletics 125
(Formerly: Kinesiology Fitness 125)
Conditioning for Football
Unit(s): 1.0
Class Hours: 48 Laboratory total.
This class is designed to prepare the college football athlete to play offense, defense, and to play on special teams. This class includes resistance training and field work. May be repeated.

Kinesiology Intercollegiate Athletics 128
(Formerly: Kinesiology Fitness 128)
Conditioning for Athletes-Women
Unit(s): 1.0
Class Hours: 48 Laboratory total. An exercise program designed for athletes who participate in women's sports. Emphasis will be on the development of speed, endurance, flexibility, and strength. May be repeated.

Kinesiology Intercollegiate Athletics 133
(Formerly: Kinesiology Activities 133)
Off Season Swimming
Unit(s): 1.0
Class Hours: 48 Laboratory total.
An advanced aquatics class designed for students with exceptional swimming talent who have an interest in training for competitive swimming. A review of swim strokes and an implementation of a variety of training techniques geared to building strength, speed and endurance. May be repeated.

Kinesiology Intercollegiate Athletics 134
(Formerly: Kinesiology Activities 134)
Golf-Playing Lesson - Off Season
Unit(s): 1.0
Class Hours: 48 Laboratory total.
Application of advanced golf techniques as they relate to regulation course play. The class will focus on playing lessons on an actual course. May be repeated.

Kinesiology Intercollegiate Athletics 171
(Formerly: Kinesiology Activities 171)
Wrestling - Off Season
Unit(s): 1.0
Class Hours: 48 Laboratory total.
Fundamentals of wrestling skills and techniques. Analysis of opponents strengths and weakness will also be considered. Student will master rules, regulations, and ethics of the activity. May be repeated.

## Kinesiology Intercollegiate Athletics 201

## Baseball Men

Unit(s): 3.0
Class Hours: 162 Laboratory total. A high-level, competitive program for students with exceptional baseball talent. The program provides competition with conference colleges as well as with other California Community Colleges. May be repeated.

Kinesiology Intercollegiate Athletics 202 Basketball-Men
Unit(s): 3.0
Class Hours: 162 Laboratory total. An advanced competitive program for student athletes with exceptional basketball talent. Students must meet C.O.A. eligibility requirements and pass a health screening prior to intercollegiate competition. May be repeated.

Kinesiology Intercollegiate Athletics 204
Football-Men
Unit(s): 3.0
Class Hours: 162 Laboratory total.
A high-level, competitive program for students with exceptional football talent. The program provides competition with conference colleges as well as with other California community colleges. Students must have a health screening to participate. May be repeated.

## Kinesiology Intercollegiate Athletics 206 <br> Swimming-Men

Unit(s): 3.0
Class Hours: 162 Laboratory total.
A high-level, competitive program for students with exceptional swimming talent. To compete on an intercollegiate athletic team, the student must comply with C.O.A. regulations. May be repeated

Kinesiology Intercollegiate Athletics 207
(Formerly: Kinesiology Activities 202)
Basketball Off Season
Unit(s): 1.0
Class Hours: 80 Laboratory total.
The program provides competition with conference colleges as well as with other California community colleges. Students must meet C.O.A. eligibility requirements and pass a health screening prior to intercollegiate competition. May be repeated.

Kinesiology Intercollegiate Athletics 209
Water Polo - Men
Unit(s): 3.0
Class Hours: 162 Laboratory total.
A high-level, competitive program for students with exceptional water polo talent. Students must meet C.O.A. eligibility requirements and pass a health screening prior to intercollegiate competition. May be repeated.

## Kinesiology Intercollegiate Athletics 210

Wrestling-Men
Unit(s): 3.0
Class Hours: 162 Laboratory total. A high-level competitive program for students with exceptional wrestling talent. To compete on an intercollegiate athletic team, the student must comply with C.O.A. regulations. May be repeated.

## Kinesiology Intercollegiate Athletics 211

Softball-Women
Unit(s): 3.0
Class Hours: 162 Laboratory total.
A high-level, competitive program for student athletes with exceptional softball talent. Student must meet C.O.A. eligibility requirements and pass a health screening prior to intercollegiate competition. May be repeated.

## Kinesiology Intercollegiate Athletics 212

Basketball-Women
Unit(s): 3.0
Class Hours: 162 Laboratory total. An advanced competitive program for student athletes with exceptional basketball talent. Students must meet C.O.A. eligibility requirements and pass a health screening prior to intercollegiate competition. May be repeated.

## Kinesiology Intercollegiate Athletics 213

Volleyball-Women
Unit(s): 3.0
Class Hours: 162 Laboratory total.
A competitive program for studentathletes. Emphasis will be placed on advanced technical skill development, offensive and defensive systems analysis, sport specific physical fitness, and intercollegiate and conference competition. Students must meet the California Community College Athletic Association eligibility requirements and pass a health screening prior to intercollegiate competition. May be repeated.

## Kinesiology Intercollegiate Athletics 214

Golf-Women
Unit(s): 3.0
Class Hours: 162 Laboratory total. A high-level competitive program for student athletes with exceptional golf talent. Students must meet C.O.A. eligibility requirements and pass a health screening prior to intercollegiate competition. May be repeated.

## Kinesiology Intercollegiate Athletics 216

Soccer-Men
Unit(s): 3.0
Class Hours: 162 Laboratory total. A competitive program for student-athletes. A class in which emphasis is placed on advanced technical and tactical skill development, offensive and defensive systems analysis, sport specific physical fitness, and intercollegiate and conference competition. Students must meet California Community College Athletic Association eligibility requirements and pass a health screening prior to competition. May be repeated.
Kinesiology Intercollegiate Athletics 217
Swimming-Women
Unit(s): 3.0
Class Hours: 162 Laboratory total. A high level, competitive program for women students with exceptional swimming talent. To compete on an intercollegiate athletic team, the student must comply with C.O.A. regulations. May be repeated.

Kinesiology Intercollegiate Athletics 218
Track-Women
Unit(s): 3.0
Class Hours: 162 Laboratory total.
The program provides competition with conference colleges as well as with other California community colleges. May be repeated.

Kinesiology Intercollegiate Athletics 219
Cross Country-Women
Unit(s): 3.0
Class Hours: 162 Laboratory total.
The program provides competition with conference colleges as well as with other California community colleges. May be repeated.

## Kinesiology Intercollegiate Athletics 220

## Soccer-Women

Unit(s): 3.0
Class Hours: 162 Laboratory total. A competitive program for student-athletes. A class in which emphasis is placed on advanced technical and tactical skill development, offensive and defensive systems analysis, sport specific physical fitness, and intercollegiate and conference competition. Students must meet Commission on Athletic (COA) eligibility requirements and pass a health screening prior to competition. May be repeated.

## Kinesiology Intercollegiate Athletics 221 Water Polo-Women

Unit(s): 3.0
Class Hours: 162 Laboratory total.
A high level competitive program for women students with exceptional water polo talent. To compete on an intercollegiate athletic team, the student must comply with C.O.A. regulations. May be repeated.

Kinesiology Intercollegiate Athletics 223
(Formerly: Kinesiology Activities 210)
Baseball
Unit(s): 1.0
Class Hours: 48 Laboratory total.
Fundamentals of fielding, throwing and hitting. Includes play situations and an emphasis on team offensive and defensive strategy. May be repeated.
Kinesiology Intercollegiate Athletics 227
(Formerly: Kinesiology Activities 227)
Off Season Water Polo
Unit(s): 1.0
Class Hours: 48 Laboratory total. Instruction and experience in the fundamentals and strategies of the sport of water polo. May be repeated.

Kinesiology Intercollegiate Athletics 231
(Formerly: Kinesiology Activities 231)
Football Camp
Unit(s): 1.0
Class Hours: 8 Lecture, 32 Laboratory total. 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. Students must have a health screening to participate. May be repeated.

Kinesiology Intercollegiate Athletics 232
(Formerly: Kinesiology Activities 232)
Football
Unit(s): 1.0
Class Hours: 48 Laboratory total. 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. May be repeated.
Kinesiology Intercollegiate Athletics 240
(Formerly: Kinesiology Activities 240)
Advanced Basketball Skills-Men
Unit(s): 1.0
Class Hours: 48 Laboratory total. Focus on developing advanced basketball skills and preparing students for competitive basketball. Open to all students of advanced ability, but intended primarily for students participating on one of the intercollegiate teams. May be repeated.

## Kinesiology Intercollegiate Athletics 261

(Formerly: Kinesiology Activities 261)
Soccer-Women
Unit(s): 0.5
Class Hours: 32 Laboratory total. A high-level, competitive, conditioning and skills program in soccer for women athletes with exceptional athletic talent. May be repeated.

Kinesiology Intercollegiate Athletics 261
(Formerly: Kinesiology Activities 261)
Soccer-Women
Unit(s): 1.0
Class Hours: 48 Laboratory total. A high-level, competitive conditioning and skills program in soccer for women athletes with exceptional athletic talent. May be repeated.

Kinesiology Intercollegiate Athletics 262
(Formerly: Kinesiology Activities 262)
Soccer-Men
Unit(s): 0.5
Class Hours: 32 Laboratory total. A high-level, competitive, conditioning and skills program in soccer for male athletes with exceptional talent. May be repeated.

Kinesiology Intercollegiate Athletics 270
(Formerly: Kinesiology Activities 270)

## Softball

Unit(s): 0.5
Class Hours: 32 Laboratory total. Fundamentals of fielding, throwing, hitting, and base running. Includes play situations and an emphasis on team offensive and defensive strategy. May be repeated.

Kinesiology Intercollegiate Athletics 270
(Formerly: Kinesiology Activities 270)
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. May be repeated.

Kinesiology Intercollegiate Athletics 271
(Formerly: Kinesiology Activities 271)
Softball - Off Season
Unit(s): 1.0
Class Hours: 48 Laboratory total.
Basic skills and fundamentals of catching, throwing, pitching, hitting and baserunning will be covered. Offensive and defensive techniques and strategies will be practiced. May be repeated.

Kinesiology Intercollegiate Athletics 281
(Formerly: Kinesiology Activities 281)
Track and Field - Off Season
Unit(s): 1.0
Class Hours: 48 Laboratory total.
Students learn the principles involved with team ethics and values by working in positive cooperation with coaches and teammates. Students will learn the value of discipline, work ethic, commitment, and loyalty. Participants will work to improve technique, training, and competitive performance in Track and Field. May be repeated.
Kinesiology Intercollegiate Athletics 291
(Formerly: Kinesiology Activities 291)
Volleyball - Off Season
Unit(s): 1.0
Class Hours: 48 Laboratory total. A high-level, competitive conditioning and skills program in volleyball for students with exceptional talent. May be repeated.

## KINESIOLOGY PROFESSIONAL (KNPR)

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.

## 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.

## Kinesiology Professional 140

Movement Education for Elementary School Children
Unit(s): 3.0
Class Hours: 32 Lecture, 48 Laboratory total. This course is designed to acquaint the elementary school major with physical education programs in grades K-6. The course includes observation, visitation, and actual teaching field work at an elementary school.
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.

## Kinesiology Professional 155

Theory of Soccer
Unit(s): 2.0
Class Hours: 32 Lecture total.
The rules of the game, tactics, and the psychology of soccer are discussed in this class. The mental aspects of the game are emphasized.

## 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.

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.

## Kinesiology Professional 170 <br> Sport Ethics <br> Unit(s): 3.0 <br> 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.

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 opponents development of game plan including offense, defense, and the kicking game.

## 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.

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 \& physiology as well as metabolic and hormonal control of exercising muscle. Sudents examine training sequences, equipment selection, and safety factors including contra-indications for apparently healthy adults.

## 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 \& physiology, training sequences, equipment selection, and safety factors including contra-indications for apparently healthy adults.

## KINESIOLOGY SPORTS MEDICINE (KNSM)

Kinesiology Sports Medicine 101
Introduction to Sports Medicine
Unit(s): 3.0
Class Hours: 48 Lecture total. Prerequisite: Concurrent enrollment in Kinesiology Sports Medicine 150.

Introduction to the field of sports medicine. Will provide basic exposure to athletic injuries, taping techniques, and appropriate treatment, prevention, and rehabilitation of athletic injuries.

Kinesiology Sports Medicine 150
Athletic Training Internship
Unit(s): 2.0
Class Hours: 96 Laboratory total. Prerequisite: Concurrently in Kinesiology Sports Medicine 101.

A laboratory experience in the application of preventative, acute and post-injury treatment of common athletic injuries. Taping skills and use of therapeutic modalities will be emphasized. Also covered will be the administration and daily functioning of the training room and participating in a hands-on internship under certified athletic trainers. Each student will required to put in 6 hours per week as an intern in the Athletic Training Room and/or at athletic events. May be repeated.

## LIBRARY \& INFORMATION STUDIES (LIBI)

Library \& Information Studies 100
Library Research Fundamentals
Unit(s): 1.0
Class Hours: 16 Lecture total Designed to provide students with survival skills in libraries. Print and non-print information sources such as reference books, magazines, databases and the Internet will be discussed. Students will participate in hands-on exercises in the Library.

Library \& Information Studies 103
Advanced Internet Research (Formerly:
Information Retrieval on the Internet)
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.

## LIBRARY TECHNOLOGY (LIBR)

Library Technology 053
Library Internship
Unit(s): 3.0
Class Hours: 48 Lecture total
Prerequisite: Library Technology 101, 110, 122.

Closely supervised field work experience in two 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 on-line. 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.
Explores standard procedures and practices in libraries 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.
Introduction to libraries as a career field with particular emphasis on the role of the library technician in various types of library settings. This course provides an overview of library history, organization, staffing, services, collections, online information sources and terminology.

## 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.

## Library Technology 110

Technical Services
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Library Technology 101. 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 Anglo American 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.
Library Technology 122

## Public Services

Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Library Technology 101.
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.

## 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.)

## 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.)

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 Multilingual Students 112 or American College English 116.

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.

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, employee and labor/management relations.

## MANUFACTURING TECHNOLOGY (MNFG)

Manufacturing Technology 011
Basic Mechanical Blueprint Reading
(Formerly: Basic Blueprint Reading)
Unit(s): 2.0
Class Hours: 32 Lecture total.
Reading and interpreting blueprints for manufacturing technologies. (Same as Engineering 011.)

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.

Manufacturing Technology 053
Technical Mathematics
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Mathematics N48 with grade of C or better.

Ratios and proportions, formulas, measurements (liner, surface, and volume), geometric construction, and right triangles. Basics of algebra, geometry, and trigonometry for the manufacturing industry.
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. Concurrent enrollment in Manufacturing Technology 011 recommended.

## Manufacturing Technology 059

Advanced Turning Concepts and Operations
Unit(s): 3.0
Class Hours: 16 Lecture, 112 Laboratory total.
Prerequisite: Manufacturing Technology 058 with a grade of C or better.

Machine turning theory and skill development with emphasis on lathe principles, capabilities, and operations. Includes construction, tool grinding, and turning machine operations.

## Manufacturing Technology 068

Advanced Milling Concepts and Operations Unit(s): 3.0
Class Hours: 16 Lecture, 112 Laboratory total.
Prerequisite: Manufacturing Technology 058 with a grade of C or better.

Advanced machine tool operation and setup with emphasis on milling machine principles, use, and capabilities, accessories, and operations.
Manufacturing Technology 069
Job Shop Skills
Unit(s): 0.5-9.0
Class Hours: 432 Laboratory total.
Prerequisite: Manufacturing Technology 059
and 068 with a grade of C or better.
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.

## Manufacturing Technology 071

CNG Program Writing
Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: Prior or concurrent enrollment
in Manufacturing Technology 058.
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. May be repeated.
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. Suggested preparation: Manufacturing Technology 071.
Manufacturing Technology 074 CNC Milling Center Set Up and Operation Unit(s): 3.0
Class Hours: 48 Lecture, 32 Laboratory total. Prerequisite: Manufacturing Technology 058 and 071 with a grade of C or better.

Basic setup and operation of numerically controlled milling machines. Students will set up and run a 3 axis CNC milling machine.

Manufacturing Technology 075
Mastercam-3D Geometry, 3D Surfaces
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Manufacturing Technology 073
with a minimum grade of C
Continued instruction of computer assisted numerical control programming. Advanced concepts and methods of creating 3-D geometry and 3-D surfaces using mastercam 3-D software. Suggested preparation: Manufacturing Technology 073.

## Manufacturing Technology 076

CNC Turning Center Set Up and Operation
Unit(s): 3.0
Class Hours: 48 Lecture, 32 Laboratory total.
Prerequisite: Manufacturing Technology 058 and 071 with a grade of C or better.

Setup and operation of numerically
controlled lathe with emphasis on the application of the Fanuc 10T machine control and CNC machining methods used in industry.

## Manufacturing Technology 077

Mastercam-3D Toolpath and CAM

## Applications

Unit(s): 3.0
Class Hours: 48 Lecture, 32 Laboratory total.
Prerequisite: Manufacturing Technology 074 with a minimum grade of C; Manufacturing
Technology 075 with a minimum grade of $\mathbf{C}$. 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. May be repeated.

## Manufacturing Technology 078

## Mastercam Lathe

Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Manufacturing Technology 071,073 , and 076 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 084

Advanced CNC Mill Set Up and Operation Unit(s): 3.0
Class Hours: 48 Lecture, 32 Laboratory total. Prerequisite: Manufacturing Technology 071 with a minimum grade of C and Manufacturing Technology 074 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.

## Manufacturing Technology 086

Advanced CNG Lathe Programming, Setup And Operation
Unit(s): 3.0
Class Hours: 48 Lecture, 32 Laboratory total.
Prerequisite: Manufacturing Technology 071 with a minimum grade of C and Manufacturing Technology 076 with a minimum grade of C .

Advanced programming, setup 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.

## Manufacturing Technology 094 <br> CNC Horizontal Mill Setup and Operation

Unit(s): 3.0
Class Hours: 48 Lecture, 32 Laboratory total. Prerequisite: Manufacturing Technology 071 with a minimum grade of C, Manufacturing Technology 074 with a minimum grade of C , and Manufacturing Technology 084 with a minimum grade of C .

Set up and operation of CNC Horizontal
Machining Center. Student 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, 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.

## Manufacturing Technology 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 Engineering 103.) Suggested preparation: Manufacturing Technology 011

## Manufacturing Technology 104

Solidworks Intermediate Solid Modeling
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Manufacturing Technology 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.)

## Manufacturing Technology 105

## Solidworks Advanced Solid Modeling

Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Manufacturing Technology 104.

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, subassemblies, advanced photoworks and advanced animator emphasized. (Same as Engineering 105.)

Manufacturing Technology 106
Solidworks Drawings
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Manufacturing Technology 103
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. Sugggested preparation: Manufacturing Technology 011

## Manufacturing Technology 114

Geometric Dimensioning and Tolerancing Unit(s): 3.0
Class Hours: 48 Lecture total.
Drawing interpretation utilizing geometric dimensioning and tolerancing (ANSI Y14.5) as applied in engineering, manufacturing, and inspection. Suggested preparation: Prior or concurrent enrollment in Manufacturing Technology 011 or Engineering 122. (Same as Engineering 114) Recommended prerequisite: Manufacturing Technology 011

## Manufacturing Technology 130A

CATIA Solid Modeling I
Unit(s): 3.0
Class Hours: 32 Lecture, 48 Laboratory total. Introductory course in parametric solid modeling CAD using CATIA software. Topics include: CAD overview, sketching, basic solid model creation (base features, extrudes, revolves, etc.) sketch constraints, reference elements, hole features, feature editing, assembly and drawing creation. (Same as Engineering 130A)

## Manufacturing Technology 130B

CATIA Solid Modeling II
Unit(s): 3.0
Class Hours: 32 Lecture, 48 Laboratory total. Intermediate course in parametric solid modeling CAD using CATIA software. Topics: intermediate/advanced level sketching, modeling (ribs, slots, lofts), feature transformation, assemblies, drafting workbench, surface modeling, and other CATIA modules. Suggested Preparation: Manufacturing Technology 130A. (Same as Engineering 130B)

## Manufacturing Technology 188

## Machine Technology Survey

Unit(s): 3.0
Class Hours: 16 Lecture, 112 Laboratory total.
Prerequisite: Successful completion of or concurrent enrollment in any one of the following: Manufacturing Technology 011; Engineering 011, 051, 122, 124, 125.

Machine tool setup 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.)

## 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; advertising, promotion, and sales.

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.

## 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.

## 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.

## 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.

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.

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-forprofit 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.

## 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.

## 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.

## 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.)

## MATHEMATICS (MATH)

Mathematics N05A
Basic Mathematics-A
Unit(s): 1.0
Class Hours: 22 Lecture total.
Reviews whole numbers and fractions using lectures, self-paced computer assisted instruction, and manipulative activities.
Not applicable to associate degree.
Grade: Pass/No Pass Only. Open Entry/ Open Exit.

Mathematics N05B
Basic Mathematics-B
Unit(s): 1.0
Class Hours: 21 Lecture total.
Prerequisite: Mathematics N05A.
Reviews decimals and percents using lectures, self-paced computer assisted instruction, and manipulative activities.
Not applicable to associate degree.
Grade: Pass/No Pass Only. Open Entry/ Open Exit.

Mathematics N05C
Basic Mathematics-C
Unit(s): 1.0
Class Hours: 21 Lecture total.
Prerequisite: Mathematics N05A and N05B. Reviews geometric formulas and signed numbers using lectures, self-paced computer assisted instruction, and manipulative activities. Not applicable to associate degree. Grade: Pass/No Pass Only. Open Entry/Open Exit.

## Mathematics N06

Essential Mathematics
Unit(s): 3.0
Class Hours: 64 Lecture total.
Prerequisite: Must obtain a score of 11 or higher on the Level 1 Math 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 N47A
Pre-Algebra/Algebra Essentials A
Unit(s): 2.0
Class Hours: 32 Lecture total.
Prerequisite: Mathematics N05 (N05A,
N05B, and N05C) or N06 with a grade of C or better or equivalent skills as measured by the Math Level 1 Exam and a course equivalent to Math N05 or 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 using lectures, self-paced computer assisted instruction, and manipulative activities. This course is intended to be a bridge from basic arithmetic to elementary algebra. Not applicable to the associate degree. Open Entry/Open Exit.

## Mathematics N47B

Pre-Algebra/Algebra Essentials B
Unit(s): 2.0
Class Hours: 32 Lecture total.
Prerequisite: Math N47A or concurrent enrollment

For students who have little or no previous algebra experience. This course offers an introduction to basic algebra concepts, math vocabulary, and algebraic operations using lectures, self-paced computer assisted instruction, and manipulative activities. This course is intended to be a bridge from basic arithmetic to elementary algebra. Not applicable to the associate degree. Open Entry/Open Exit.

## Mathematics N48

## Pre-Algebra/Algebra Basics

Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: Mathematics N05C or N06 with a grade of C or better or placement into Mathematics N48 on the Math Level 1 Exam and a course equivalent to Mathematics N05 or N06.

For students who have little or no previous algebra experience. This course offers an introduction to basic algebra concepts, math vocabulary, algebraic operations. This course is intended to be a bridge from basic arithmetic to elementary algebra. Not applicable to associate degree.

## Mathematics 060

Elementary Algebra
Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: Mathematics N48 with a grade of C or better; or placement into mathematics 060 on the mathematics level 1 or 2
placement exam and a course equivalent to
Mathematics N48 or N47(all four units).
A first course in algebra which includes solutions and applications of first and second degree equations, geometric concepts, graphs, inequalities, exponents, polynomials, and algebraic fractions.

Mathematics 061
Elementary Algebra With Lab
Unit(s): 4.0
Class Hours: 64 Lecture, 9 Laboratory total.
Prerequisite: Mathematics N48 with a C or
better or placement into Mathematics 060
or 061 on the Mathematics Level 1 or 2
placement exam and a course equivalent to
Mathematics N48 or N47 (all four units). A first course in algebra which includes solutions and applications of first and second degree equations, geometric concepts, graphs, inequalities, exponents, polynomials, and algebraic fractions. All Math 061 classes include a laboratory requirement requiring weekly attendance in the Math Study Center.

## Mathematics $\mathbf{0 7 0}$

Geometry
Unit(s): 3.0
Class Hours: 64 Lecture total.
Prerequisite: Math 060 or 061 with a grade of C or better; or placement into Math 070 on the mathematics level 2 placement exam and a course equivalent to mathematics.

Basic Euclidean geometry. Includes concepts of lines, planes, triangles, congruence, proofs, inequalities, parallel lines, similarity, areas, and volumes.

## Mathematics 080

Intermediate Algebra
Unit(s): 4.0
Class Hours: 80 Lecture total.
Prerequisite: Mathematics 060 or 061 with a grade of C or better; or placement into Math 080 on the Mathematics level 2 placement exam and a course equivalent to Mathematics 060 or 061.

Systems of equations: inequalities, graphs and functions; radicals, quadratic polynomials, rational expressions; exponential and logarithmic functions, problem solving.

## Mathematics 081

Intermediate Algebra With Lab
Unit(s): 4.0
Class Hours: 80 Lecture, 16 Laboratory 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.

A second course in algebra that includes systems of equations: inequalities, graphs and functions; radicals, quadratic polynomials, rational expressions; exponential and logarithmic functions, problem solving. All Math 081 classes include a laboratory requirement requiring weekly attendance in the Math Center

## Mathematics 105

Mathematics for Liberal Arts Students
Unit(s): 3.0
Class Hours: 64 Lecture total.
Prerequisite: Mathematics 080 or 081 with a grade of C or better or equivalent skills as measured by the Math Level 3 Exam and a course equivalent to Mathematics 080 or 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.

## Mathematics 140 <br> College Algebra

Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: Mathematics 080 or 081 with a grade of C or better or equivalent skills as measured by the Math Level 3 Exam and a course equivalent to Mathematics 080 or 081.

Survey of advanced topics in algebra: equations, inequalities and functions involving polynomials, rationals, exponentials, and logarithms with applications and graphing; sequences and series.

## Mathematics 145

Finite Mathematics
Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: Mathematics 080 or 081 with a grade of C or better; or placement into Mathematics 145 on the Mathematics Level 3 placement exam AND a course equivalent to Mathematics 080 or 081.

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, biological and behavioral sciences are emphasized.

## Mathematics 150 <br> Calculus for Biological, Management and <br> Social Sciences <br> Unit(s): 4.0 <br> Class Hours: 80 Lecture total.

Prerequisite: Mathematics 140 or Mathematics 145 with a grade of C or better; 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.

## Mathematics Course Sequences



Note: Where a student places in the sequence will depend upon previous background and 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 080/081 to ensure enrollment in the most appropriate subsequent class.
*Geometry is prerequisite.

Mathematics 160
Trigonometry
Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: Both Mathematics 070 and 080 or 081 with a grade of C or better; or placement in Mathematics 160 with the Mathematics Level 3 Exam and courses equivalent to Mathematics 070 and 080 or 081.

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.

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.)

Mathematics 170

## Pre-Calculus Mathematics

Unit(s): 4.0
Class Hours: 80 Lecture total.
Prerequisite: Mathematics 160 with a grade of C or better or equivalent skills as measured by the Math Level 4 Exam and a course equivalent to Mathematics 160 . Advanced algebraic topics. Study of rational, trigonometric, exponential and logarithmic functions, and analytic geometry. Preparation for Mathematics 180.

## Mathematics 180

Analytic Geometry and Calculus
Unit(s): 4.0
Class Hours: 80 Lecture total.
Prerequisite: Mathematics 170 (Precalculus) with a grade of C or better or equivalent skills as measured by the Math 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.

## Mathematics 180 H

## Honors Analytic Geometry and Calculus

Unit(s): 4.0
Class Hours: 80 Lecture total.
Prerequisite: A high school or college GPA of 3.0 or above and Mathematics 170 (Precalculus) with a 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.

## Mathematics 185

Analytic Geometry and Calculus
Unit(s): 4.0
Class Hours: 80 Lecture total.
Prerequisite: Mathematics 180 or 180 H ,
first semester calculus, with a grade of C or better.

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.

Mathematics 204
Mathematical Concepts for Elementary
School Teachers (Formerly: Mathematics 203,
Fundamental Concepts of Elementary

## Mathematics)

Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: Mathematics 080/081 Intermediate Algebra or equivalent with a grade of C or better

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.

## Mathematics 219 (C-ID SOCI 125)

Statistics and Probability
Unit(s): 4.0
Class Hours: 80 Lecture total.
Prerequisite: Mathematics 080 or 081 with
a grade of C or better or placement into
Mathematics 219 on the Mathematics Level 3
placement Exam AND a course equivalent to
Mathematics 080 or 081.
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. (Same as Social Science 219.)

## Mathematics 219H (C-ID SOCI 125)

## Honors Statistics and Probability

Unit(s): 4.0
Class Hours: 80 Lecture total.
Prerequisite: Mathematics 080 or 081 with a grade of C or better (or placement into Mathematics 219 on the Mathematics Level 3 placement exam AND a course equivalent to
Mathematics 080 or 081) 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 nonparametric statistics, with applications designed around the individual interests of students. (Same as Social Science 219H.)

## Mathematics 280

Intermediate Calculus
Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: Mathematics 185, second se-
mester calculus, with a grade of C or better.
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.

Mathematics 287
Introduction to Linear Algebra and
Differential Equations
Unit(s): 5.0
Class Hours: 80 Lecture total.
Prerequisite: Mathematics 280 with a grade of C or better

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.

## MEDICAL ASSISTANT (MA)

Medical Assistant 001
Cooperative Work Experience Education -

## Occupational

Unit(s): 1.0-16.0
Class Hours: 1200 Lecture total.
Prerequisite: MA 051A with a minimum
grade of C and MA 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. 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
grade of C or better.
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: MA 051 A 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.

## 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.
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: MUS 009B 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: MUS 009C 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

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.

Music 101H
Honors Music Appreciation
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: A high school or college CPA 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.

## Music 102 <br> World Music <br> 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.

## Music 102H

Honors World Music
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: A high school or college CPA 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 musics.

## 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.

## 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.

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.
Music 110
Fundamentals of Music
Unit(s): 3.0
Class Hours: 48 Lecture total.
Music is explored through lecture, written exercises, melodic and rhythmic performance, and composition. Stresses practical skills necessary for performance. Prepares students for the study of harmony and arranging by examining scales, intervals, and chords. Ability to read music in at least one clef is advised.

## Music 111

Basic Music Theory and Musicianship I (Formerly: Basic Theory and Ear Training) 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.

## Music 112

Music Theory and Musicianship II (Formerly: Theory 2)
Unit(s): 4.0
Class Hours: 64 Lecture, 16 Laboratory total. Prerequisite: MUS 111 with a minimum grade of C

Continued study of harmony and ear training. Includes writing phrases and cadences, non-harmonic tones, harmonization, voice leading, melodic construction, figured bass, chord progression and keyboard harmony. Required for music majors; open to non-majors.

## Music 113A

Basic Musicianship Skills
Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total. Ear training and in-class sightsinging 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.

Music 113B

## Musicianship Skills

Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total. Prerequisite: Music 113A.

Continued ear training and in-class sightsinging 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.

## Music 114A

## Musicianship

Unit(s): 1.0
Class Hours: 16 Lecture, 32 Laboratory total.
Prerequisite: Music 112.
Competency-based sightsinging, rhythm, ear training, dictation (melodic/harmonic) for performers and transferring music majors. Arranged hours in Music Lab for computer programs and aural exercises.

## Music 114B

## Musicianship

Unit(s): 1.0
Class Hours: 16 Lecture, 32 Laboratory total.
Prerequisite: Music 114A.
Competency-based sightsinging, rhythm, ear training, dictation (melodic/harmonic) for performers and transferring music majors. Arranged hours in Music Lab for computer programs and aural exercises. B semester uses more advanced materials.

Music 115A
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.

Music 115B
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.

## Music 115C

## 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.

## Music 115D

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 oncampus 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.

Music 121
Beginning Voice
Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total. Group instruction for beginners emphaGroup 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.

Music 122
Intermediate Voice
Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total.
Prerequisite: Music 121.
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.

## Music 123

Advanced Voice
Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total.
Prerequisite: Music 122.
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.

## Music 124

Advanced Vocal Production and Repertoire
Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total.
Prerequisite: Music 123.
Continuation of group instruction for students who have completed three semesters of voice and can perform at an advanced level. Further develops advanced vocal and choral production through a variety of vocalize styles and techniques. Instruction includes advanced English and foreign language song literature. Practice outside of class required. Designed for both music majors and non music majors.

## Music 125A

Song Writing Workshop
Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total. Instruction in song writing (words and music) in various styles. Career and business aspects introduced. Ability to notate music not necessary. Students are required to present their songs in class, live or pre-recorded.

## Music 125B

## Song Writing Workshop

Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total.
Prerequisite: Music 125A.
Advanced instruction in song writing
(words and music) in various styles.
Assignments differ from Music 125A.
Career/business aspects further ex-
plored. Songs presented in class. Students are encouraged to concurrently enroll in Music 109 or 111.

Music 132
The Jazz Singers
Unit(s): 1.0
Class Hours: 48 Laboratory total.
Prerequisite: Audition.
Rehearsal and performance of vocal jazz and popular compositions and arrangements. Performance is emphasized. Each semester requires a variety of new and different repertoire. May be repeated.

## Music 134

## Vocal Jazz Workshop

Unit(s): 1.0
Class Hours: 48 Laboratory total.
Introduces, rehearses, and performs standard and current vocal jazz arrangements. Emphasizes basic vocal jazz elements such as improvisation and scat styles in addition to basic stage technique. Each semester requires performance of a variety of new repertoire. May be repeated.

## Music 135

Concert Chorale
Unit(s): 1.0
Class Hours: 72 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.

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.

Music 137
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.

## 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.

Music 141
Instrumental Ensembles
Unit(s): 1.0
Class Hours: 48 Laboratory total.
Prerequisite: Audition.
Study, rehearsal, and performance of music for small commercial instrumental groups. Music literature will differ each semester. Previous instrumental performance experience recommended. Audition required. May be repeated.

## Music 142

Creating Music With MIDI
Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total. Basic techniques in creating music with computer assisted technology including MIDI sequencing, drum track programming, editing, mixdown and use of software sampler. Students learn MIDI applications through musical projects. Basic skill level on keyboard suggested.

## Music 143

Intermediate Techniques of MIDI Sequencing Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total. Prerequisite: Music 142.

Intermediate techniques of MIDI and computer sequencing including graphic editing, virtual mixing, MIDI effects and use of the sampler. Students learn MIDI applications and electronic composition through musical projects.

## Music 144

Projects in Electronic Music
Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total. Prerequisite: Music 143 or 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. Assigments will help prepare students for level 1 certification in Logic.

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. May be repeated.

## 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.

Music 147
Digital Recording Studio Techniques II
Unit(s): 2.0
Class Hours: 24 Lecture, 24 Laboratory total. Prerequisite: Music 146.

Continuation of Digital Recording Studio Techniques I. Further study of digital sound manipulation including digital effects, compression, equalization, editing on a digital mixer, live recording techniques and CD production.
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.
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.

## Music 151

## Commercial Music Theory

Unit(s): 3.0
Class Hours: 48 Lecture, 16 Laboratory total. Prerequisite: Music 111.

Beginning instruction in popular and jazz theory and composition. MIDI workstations utilized in instruction. Includes study of chords, chord progressions, improvisation, and fundamentals.

## 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.

## Music 162

Class Piano II
Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total. Prerequisite: Music 161

Group instruction for those possessing basic piano skills, but still classified as beginners. Emphasizes note reading, keyboard technique, chord patterns, sightreading. Daily practice required. Practice pianos available on campus. Required for music majors whose principal instrument is not piano.

Music 163
Class Piano III
Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total.
Prerequisite: Music 162.
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.

## Music 164A

## Intermediate Piano Repertoire I

Unit(s): 1.0
Class Hours: 8 Lecture, 24 Laboratory total.
Prerequisite: Music 163.
Instruction for intermediate level students. Emphasizes solo material, technique, sight reading, interpretation, and performance. Daily practice required.
Practice pianos available on campus.

## Music 164B

## Intermediate Piano Repertoire II

Unit(s): 1.0
Class Hours: 8 Lecture, 24 Laboratory total.
Prerequisite: Music 164A.
Continuation of instruction for advanced intermediate level students. Emphasizes solo material, technique, sight reading, and performance. Daily practice required. Practice pianos available on campus.

## Music 165

## Beginning Folk Guitar

Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total. Instruction in beginning guitar covering basic playing skills in various accompaniment, melody, and solo styles. No previous knowledge of music required. Student must furnish six-string guitar (nylon strings preferred).

## Music 166A

## Beginning Electric Bass

Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total. Group instruction for beginners on electric bass. Introduction to basics of music notation, rhythm and blues, rock, jazz and pop styles presented. Lead sheet interpretations are presented with practical performance ideas. Student must furnish electric bass.

## Music 166B

Intermediate Electric Bass
Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total.
Prerequisite: Music 166A.
Intermediate group instruction on electric bass. Continuation in the basics of music, performance theory, styles, and technical skills introduced in Music 166A. Includes expanded chord vocabulary, new scales and modes, and introduction to jazz improvisation. Student must furnish electric bass.

Music 168
Stylistic Interpretation of Piano Repertoire
Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total. Prerequisite: MUS 164B 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.
Music 169
Harmonization At the Keyboard
Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total. Beginning keyboard harmonization skills. Includes playing by ear and learning accompaniment patterns in several styles from simple chord progressions. Music 161 or elementary piano ability recommended.

## Music 170

Piano Clinic
Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total. Technique and literature review for piano students who have studied piano in the past. Class sessions include presentations of technical and stylistic elements, ensemble techniques, sightreading improvement, and individualized help. For intermediate players. May be repeated.

## Music 171

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.

## 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. May be repeated.

Music 175
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.

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.

## Music 177

## Latin Jazz Ensemble

Unit(s): 1.0
Class Hours: 48 Laboratory total.
Rehearsal and performance of jazz repertoire with influences from the Caribbean, Brazil, and Latin America. Each semester requires the performance of different repertoire. Designed for students who have basic performance and reading skills. May be repeated.

## 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 different repertoire. Designed for students who have basic performance skills. May be repeated.

## Music 179

Technique Studies for Pianist
Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total.
Prerequisite: Music 163.
Group study of scales, arpeggios, and exercises to increase finger agility and keyboard control. Suggested concurrent enrollment with Music 164AB or applied piano studies in Music 115. Not for beginners.

## 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.

## Music 180B

Intermediate String Methods
Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total. Prerequisite: MUS 180A with a minimum grade of C

Intermediate instruction on violin, viola, cello or string bass. skills developed through in-class rehearsal and performance of intermediate technical exercises and orchestral repertoire.

## Music 181

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.

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.

## Music 186

Intermediate Classical Guitar
Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total. Prerequisite: Music 185.

Intermediate instruction in solo, duo and trio repertoire. Emphasizes technique studies and performance styles of 18th century music. Student must provide nylon string guitar. May be repeated.

Music 187
Advanced Classical Guitar
Unit(s): 1.0
Class Hours: 8 Lecture, 24 Laboratory total.
Prerequisite: Music 186
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. May be repeated.

Music 188
Advanced Classical Guitar Technique and Repertoire
Unit(s): 1.0
Class Hours: 8 Lecture, 24 Laboratory total. Prerequisite: Music 187

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.

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.

## 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 postproduction 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.)

## Music 211

Music History and Literature
Unit(s): 3.0
Class Hours: 48 Lecture total
Prerequisite: MUS 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.

## Music 213

Theory 3
Unit(s): 3.0
Class Hours: 48 Lecture total
Prerequisite: Music 112.
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.

## Music 214

## Theory 4

Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Music 213.
Continuation of Music 213. Late nineteenth century harmonic technique, and important aspects of twentieth 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.

## Music 215A

Applied Music (Advanced Private Instruction) Unit(s): 1.0
Class Hours: 16 Lecture, 96 Laboratory total. Prerequisite: MUS 115D 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.

## Music 216

Advanced Harmony and Composition I
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Music 214.
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.

Music 217
Advanced Harmony and Composition II
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Music 214.
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.

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.

## Music 241

Chamber Music Ensemble
Unit(s): 1.0
Class Hours: 48 Laboratory total.
Prerequisite: Audition.
Rehearsal and performance of music for small groups of strings, woodwinds, brass, percussion, and keyboard instruments in varying combinations. Each semester requires performance of new repertoire. Previous instrumental performance experience recommended. Audition required. May be repeated.

## Music 268

Intermediate Keyboard Repertoire
Unit(s): 1.0
Class Hours: 16 Lecture, 16 Laboratory total. Prerequisite: MUS 168 with a minimum grade of C

Style characteristics of Baroque, Classical, Romantic and 20th Century music studied through intermediate level piano compositions. Students learn to play expressively within currently accepted performance practices for each period.

Music 271
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.

## 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.

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 714-564-6869 for paperwork BEFORE registration. May be repeated. Grade: Pass/No Pass Only.

## NURSING-REGISTERED (NRN)

## Nursing-Registered 045

Cardiopulmonary Resuscitation
Recertification
Unit(s): 0.2
Class Hours: 4 Lecture, 4 Laboratory total. To provide updated information and skills training in Basic Life Support for healthcare providers. May be repeated. Grade: Pass/No Pass Only. Open Entry/ Open Exit.

Nursing-Registered 051
Preparation for TEAS - English
Unit(s): 0.2
Class Hours: 3 Lecture total.
Designed to assist Nursing students in preparation for the English component of the Test of Essential Academic Skills exam. May be repeated. Grade: Pass/No Pass Only.

## Nursing-Registered 052

Preparation for TEAS - Math
Unit(s): 0.4
Class Hours: 6 Lecture total.
Designed to assist Nursing students in preparation for the math component of the Test of Essential Academic Skills. May be repeated. Grade: Pass/No Pass Only.

Nursing-Registered 053
Preparation for TEAS - Reading
Unit(s): 0.2
Class Hours: 3 Lecture total.
Designed to assist Nursing students in preparation for the reading component of the Test of Essential Academic Skills. May be repeated. Grade: Pass/No Pass Only.

Nursing-Registered 054
Preparation for TEAS - Science
Unit(s): 0.3
Class Hours: 4 Lecture total.
Designed to assist Nursing students in preparation for the science component of the Test of Essential Academic Skills. May be repeated. Grade: Pass/No Pass Only.

## Nursing-Registered 101

Nursing Process: Non-Critical Adults
Unit(s): 4.5
Class Hours: 72 Lecture total
Prerequisite: Biology 239, Biology 249, Biol-
ogy 139 or 229, and English 101, English
101H. 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.

Nursing-Registered 101L
Nursing Actions: Non-Critical Adults
Unit(s): 5.0
Class Hours: 240 Laboratory total.
Prerequisite: Biology 239, Biology 249, Biol-
ogy 139 or 229, and English 101, English
101H. 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.

## 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. 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.

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; concurrent enrollment in NursingRegistered 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.

## 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.
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.

Nursing-Registered 105
Cooperative Work Experience Education-
Occupationa
Unit(s): 1.0-4.0
Class Hours: 360 Lecture total.
Prerequisite: Concurrent enrollment in
Nursing-Registered 201L or 202L
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: 75-149 hours = 1 unit, 150224 hours $=2$ units, 225-299 hours $=3$ units, and 300-360 hours $=4$ units. May be repeated. Grade: Pass/No Pass Only.

## Nursing-Registered 106A

Health Sciences Skills Laboratory - First Semester
Unit(s): 0.5
Class Hours: 24 Laboratory total.
Prerequisite: Enrollment in the Registered
Nursing Program, any N.C.E. courses, or RN
re-entry.
Supervised use with supplemental learning assistance of the skills lab to assist the student in the development of clinical competency of nursing fundamentals and mastery of fundamental psychomotor skills content addressed in courses NRN101 and NRN-101L. Grade: Pass/No Pass Only. Open Entry/Open Exit.

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 N.C.E. courses, or RN re-entry.

Supervised use with supplemental learn-
ing assistance of skills lab to assist the
student in development of clinical com-
petency of nursing concepts pertaining
to maternal-child health and mastery of
psychomotor skills related to maternal-
child biological and psychosocial needs
addressed in courses NRN 102 and NRN
102L. Grade: Pass/No Pass Only. Open Entry/Open Exit.

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, any N.C.E. courses, or RN re-entry.

Supervised use with supplemental learning assistance of skills lab to assist the re-entry student or EMT student in the expansion of clinical competency of principles of nursing and mastery of basic to intermediate pyschomotor skills content addressed in courses NRN 101, NRN 101L, NRN 102, NRN 102L, EMT 101 or EMT 105. Grade: Pass/No Pass Only. Open Entry/Open Exit.

## Nursing-Registered 112

## Nursing Concepts

Unit(s): 1.5
Class Hours: 24 Lecture total.
Prerequisite: English 101 or Eng 101H, Biology 149 or Biology 239, Biology 249, Biology 139 or 229.

Emphasizes development of the registered nurse including role, communication, nursing process, legal and ethical concepts, dimensional analysis, test taking strategies, the Santa Ana Conceptual Framework for Nursing, nutrition and medical terminology. Completion required prior to entry into NursingRegistered 102/102L.

## 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 testtaking strategies, medication calculations, fluid balance and skills testing. Open to all nursing students; required of advanced placement. Grade: Pass/No Pass Only.

Nursing-Registered 201
Nursing Process: Critical Biological \&
Psychosocial System Needs I
Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: Nursing-Registered 102 \&
102L. 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.

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
and 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.

## 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, 201L;
Concurrent enrollment in Nursing-Regis-
tered 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.

## 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, 201L;
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.

## 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 N.C.E. courses, or RN re-entry.

Supervised use with supplemental learning assistance of skills lab to assist the student in development of clinical competency of mental health nursing and mastery of psychomotor skills content addressed in courses NRN 201 and NRN 201L. Grade: Pass/No Pass Only. Open Entry/Open Exit.

## Nursing-Registered 206B <br> Health Sciences Skills Laboratory - Fourth <br> Semester

Unit(s): 0.5
Class Hours: 24 Laboratory total.
Prerequisite: Enrollment in the Registered
Nursing Program, any N.C.E. courses, or RN re-entry.

Supervised use with supplemental
learning assistance of skills lab to assist
the student in development of clinical competency of advanced medical/ surgical nursing concepts and mastery of advanced medical/surgical psychomotor skills content addressed in courses NRN 202 and NRN 202L. Grade: Pass/No Pass Only. Open Entry/Open Exit.

## 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 N.C.E. courses, or RN re-entry.

Supervised use with supplemental learning assistance of skills lab to assist the RN refresher, advanced placed nursing student, or EMT student, in the development and maintenance of clinical competency of nursing theoretical knowledge and mastery of advanced psychomotor skills content necessary for the transition into clinical practice as addressed in courses NRN 201, NRN 201L, NRN 202, NRN 202L, EMT 101, or EMT 105. Grade: Pass/No Pass Only. Open Entry/ Open Exit.

## NUTRITION \& FOOD (NUTR)

Nutrition \& Food 062
Basic Techniques of Cooking
Unit(s): 2.0
Class Hours: 16 Lecture, 48 Laboratory total. Basic techniques and principles of food preparation are practiced in skill applied laboratory. (Same as Culinary Arts 062.)

Nutrition \& Food 065
Contemporary Nutrition
Unit(s): 3.0
Class Hours: 48 Lecture total.
Nutrition fundamentals for health maintenance throughout the life cycles of diverse populations including chronic diseases, weight control and athletic performance; use of nutrient supplements and evaluation of information sources.

## Nutrition \& Food 101

The Food System and Career Opportunities
Unit(s): 3.0
Class Hours: 48 Lecture total.
Career opportunities and projected employment trends in Nutrition and Dietetics, Culinary Arts, hospitality, food science, and agribusiness are explored. Course covers scope and responsibilities of professional members in various food system careers. (CAN FCS 32) Transfer Credit: CSU

Nutrition \& 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 \& service and equipment use, care, selection and accident prevention. (Same as Culinary Arts 110)

## Nutrition \& Food 115

## Nutrition

Unit(s): 3.0
Class Hours: 48 Lecture total.
The function and sources of nutrients and their role in health and disease are assessed within the framework of anatomy, physiology and chemistry. The course includes utilization of scientific methods to evaluate nutrition information, research and application of current nutrition issues and controversies. The students will analyze their food intake.

## Nutrition \& Food 115H

## Honors Nutrition

Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: A high school or college GPA of 3.0 or above

An enriched, student-oriented assessment of the function and sources of nutrients and their role in health and disease within the framework of anatomy, physiology, and chemistry with application to the individual and population at large. The course includes utilization of scientific methods to evaluate nutrition information, research and application of current nutrition issues and controversies and group nutrition projects-experiments. Students will analyze their food intake.

## Nutrition \& Food 116

Principles of Food Preparation
Unit(s): 3.0
Class Hours: 32 Lecture, 48 Laboratory total. Prerequisite: Negative T.B. Test or chest X-ray.

Basic knowledge of food science and proficiency in food preparation techniques. Emphasizes scientific basis for preparation techniques, nutritional values, safety, sanitation, and product standards.

## Nutrition \& Food 118

Cultural Foods
Unit(s): 3.0
Class Hours: 40 Lecture, 24 Laboratory total.
Prerequisite: Negative T.B. Test or chest
X-ray.
Insight into the diverse U.S. micro cultures will be broadened through a study of their foods. Explores major cultures with an emphasis on their history, American immigration and assimilation patterns, religious dietary laws, traditional diets, special customs, etiquette practices and therapeutic uses for foods. Some examples of traditional foods will be prepared, sampled and discussed in class.

Nutrition \& Food 299
Cooperative Work Experience Education
Unit(s): 1.0-4.0
Class Hours: 6 Lecture, 240 Lecture total.
Prerequisite: 6 units completed in Nutrition
$\&$ Food Courses.
Supervised culinary arts field experience with new tasks in major. Student can earn 1 unit of credit for 80 hours worked up to 320 hours for 4 units. Grade: Pass/No Pass Only.

## OCCUPATIONAL THERAPY ASSISTANT (OTA)

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.

This course will offer an introduction to basic medical terminology and documentation appropriate to practice needs of the Occupational Therapy Assistant.

Occupational Therapy Assistant 101
Foundations of Occupation and Occupational Therapy
Unit(s): 4.0
Class Hours: 64 Lecture total.
Course defines and explores occupation as it is used to provide the foundation for study of the occupational therapy profession with an overview of past and present practice.

Occupational Therapy Assistant 101L Exploration of Occupation Through Activity Unit(s): 2.0
Class Hours: 102 Laboratory total. Prerequisite: English 101 or 101 H, and 3 units of Communication Studies (101 or 101 H , or 102 or 140 or 145 or 152). Clinical experience emphasizing the meaning and variability of occupation through analysis of occupational patterns, task analysis, opportunity to observe teaching and learning of selected populations, and practicing teaching and learning skills.

Occupational Therapy Assistant 102 Psychosocial Function and Dysfunction Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: OTA 101 with a minimum grade of C; OTA 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.
Occupational Therapy Assistant 102L
Psychosocial Components of Occupation
Unit(s): 2.5
Class Hours: 128 Laboratory total.
Prerequisite: Occupational Therapy Assistant $100,101,101 \mathrm{~L}$.

This course will explore the occupational therapy assistants' role in conducting assessments and treatment protocols used in pediatric, adolescent, and adult psychosocial settings.

## Occupational Therapy Assistant 103

Physical Function and Dysfunction
Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: OTA 102 with a minimum grade of C; OTA 102L with a minimum grade of C .

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.
Occupational Therapy Assistant 103L Physical Components of Occupation Unit(s): 2.5
Class Hours: 128 Laboratory total. Prerequisite: OTA 102 with a minimum grade of C; OTA 102L with a minimum grade of C .

Explores the Occupational Therapy Assistant's role in conducting assessments and treatment commonly used by occupational therapists with clients across the life span.

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 emphsis 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.

Occupational Therapy Assistant 111
Applied Kinesiology
Unit(s): 1.0
Class Hours: 16 Lecture total.
Prerequisite: Biology 149 or 239.
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.

## Occupational Therapy Assistant 115

## Human Disease and Occupation

## Unit(s): 2.0

Class Hours: 32 Lecture total.
Prerequisite: Occupational Therapy Assistant 101.

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.

Occupational Therapy Assistant 201
Contemporary Models of Occupational
Therapy Practice
Unit(s): 4.0
Class Hours: 48 Lecture, 48 Laboratory total. Prerequisite: OTA 102 with a minimum grade of C; OTA 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.
Occupational Therapy Assistant 202
Level II Fieldwork - Part I

## Unit(s): 6.0

Class Hours: 320 Laboratory total.
Prerequisite: Occupational Therapy Assistant $103,103 \mathrm{~L}$ and 201.

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.

Occupational Therapy Assistant 203
Level II Fieldwork - Part II
Unit(s): 6.0
Class Hours: 320 Laboratory total.
Prerequisite: Occupational Therapy Assistant 103, 103L and 201.

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.

## 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 opertunities and legal requirements to become a paralegal/legal assistant. A study of the Ethics of the legal Profession.

## Paralegal 101

Law Office Management
Unit(s): 2.0
Class Hours: 32 Lecture total.
Prerequisite: Paralegal 100 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, law office layout.

## Paralegal 105

Cooperative Work Experience Education -
Occupational
Unit(s): 1.0-4.0
Class Hours: 64 Lecture total.
Supervised paid or volunteer experience in student's major including new or expanded responsibilities. One unit of credit for each 5 hours worked per week to a maximum of 4 units for 20 hours work per week each semester. Limitation of 16 units in occupational cooperative education courses. Students must be enrolled in minimum of 7 units. Grade: Pass/No Pass Only.

Paralegal 107
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 Criminal Justice 107.)

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.

## Paralegal 121

Ethics and Professional Responsibility
Unit(s): 2.0
Class Hours: 32 Lecture total.
Prerequisite: Paralegal 100 or concurrent enrollment.

Ethics and professional responsibility for paralegals: fees, client funds, billing, advertising, solicitation, unauthorized practice, deceit, confidentiality; conflict of interest, suppressing evidence, reporting misconduct and professional practice obligations.

## Paralegal 122

Elder Law
Unit(s): 2.0
Class Hours: 32 Lecture total.
Prerequisite: Paralegal 100 or concurrent enrollment.

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.

## Paralegal 130

Legal Transactions
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Paralegal 100 or concurrent
enrollment.
Introduction to contracts and drafting legal documents. Contract formation, performance, breach and third party interests. Student 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.

Paralegal 131
Alternate Dispute Resolution
Unit(s): 2.0
Class Hours: 32 Lecture total.
Prerequisite: Paralegal 100 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.

Paralegal 132
Family Law and Procedure
Unit(s): 2.0
Class Hours: 32 Lecture total.
Prerequisite: Paralegal 100 or concurrent enrollment.

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.
Paralegal 133
Workers Compensation Law and Procedure Unit(s): 2.0
Class Hours: 32 Lecture total.
Prerequisite: Paralegal 100 or concurrent enrollment.

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.

## Paralegal 134

Probate Law and Procedure
Unit(s): 2.0
Class Hours: 32 Lecture total.
Prerequisite: Paralegal 100 or concurrent enrollment.

Probate and estate planning procedures. Skills required to draft probate documents, assist attorneys in administration of estates, monitoring asset and fiduciary accountings. Basic probate laws, wills, trusts and taxes.

## Paralegal 135

Bankruptcy Law and Procedure
Unit(s): 2.0
Class Hours: 32 Lecture total.
Prerequisite: Paralegal 100 or concurrent enrollment.

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.

## Paralegal 136

Real Property Law and Procedure
Unit(s): 2.0
Class Hours: 32 Lecture total.
Prerequisite: Paralegal 100 or concurrent enrollment.

Purchase sales agreements, mortgages,
leases, easements, deeds, closing and recording of documents, public domain, condemnation, title searches, foreclosure process, eviction process(unlawful detainer), landlord-tenant law.

Paralegal 137
Tort and Insurance Law
Unit(s): 2.0
Class Hours: 32 Lecture total.
Prerequisite: Paralegal 100 or concurrent enrollment.

Intentional torts, negligence, strict liability, product liability, damages, immunity, defenses to torts. Principles of insurance law, and procedures for the investigation of personal injury cases.

## Paralegal 138

Law of Business Organizations
Unit(s): 2.0
Class Hours: 32 Lecture total.
Prerequisite: Paralegal 100 or concurrent enrollment.

Laws of the California Corporations Code. Students prepare articles of incorporation, minutes, by-laws, stock and stock transfer. Agency law, partnership laws.

## Paralegal 139

Fundamentals of Labor Law
Unit(s): 2.0
Class Hours: 32 Lecture total.
Prerequisite: Paralegal 100 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.

## Paralegal 140

Immigration Law and Procedure
Unit(s): 2.0
Class Hours: 32 Lecture total.
Prerequisite: Paralegal 100 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.

## Paralegal 143

Civil Litigation Overview
Unit(s): 2.0
Class Hours: 32 Lecture total.
Prerequisite: Paralegal 100 or concurrent enrollment.

Overview of California civil procedure from acceptance of case to trial. Planning litigation, pleadings, motions, discovery and trial preparation.

Paralegal 144
Discovery Techniques
Unit(s): 2.0
Class Hours: 32 Lecture total.
Prerequisite: Paralegal 100 and Paralegal 143
or concurrent enrollment.
Focus on the Discovery Phase of litigation. Overview of California discovery rules, the discovery plan preparation of discovery documents and responses. Practical applications for paralegal.

## Paralegal 145

## Civil Litigation Overview

Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: Paralegal 100 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.

## Paralegal 146

Tort Law and Alternative Dispute Resolution
Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: PARA 100 with a minimum grade of C or Concurrent enrollment.

Intentional torts, negligence, strict liability, product liability, damages, immunity, 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.

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.)

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.)

## 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.)

Paralegal 150
Legal Transactions
Unit(s): 5.0
Class Hours: 80 Lecture total.
Prerequisite: PARA 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. Student will learn the laws of the California Corporations Code and the laws governing real estate transactions. Student 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.

Paralegal 246
Legal Research and Analysis
Unit(s): 4.0
Class Hours: 48 Lecture, 48 Laboratory total.
Prerequisite: Paralegal 100, with a grade of C
or better, or concurrent enrollment.
Principles of research, analysis, and techniques for the Paralegal. Must be familiar with Civil Procedure.

## Paralegal 248

Advanced Research and Writing
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Paralegal 100, with a grade of
C or better, or concurrent enrollment and
Paralegal 246 with a grade of C or better.
Advanced projects in legal research and
writing Emphasis on legal form and style.

## Paralegal 297

The Professional Paralegal (Formerly:
Paralegal 298)
Unit(s): 2.0
Class Hours: 32 Lecture total.
Prerequisite: Students must have a C or better in: 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).

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.

Paralegal 299
Cooperative Work Experience Education
Unit(s): 1.0-4.0
Class Hours: 64 Lecture total.
Supervised volunteer or employment experience and study related to Paralegal major including new and expanded responsibilities. One unit of credit for each 5 hours worked per week to a maximum of 4 units for 20 hours per week each semester. Limitation of 8 units in Paralegal Cooperative Education courses. Must enroll in minimum 7 units. Grade: Pass/ No Pass Only.

## 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.

Pharmacy Technology 054
Pharmacy Calculations
Unit(s): 2.0
Class Hours: 32 Lecture total.
Calculations related to drug dosage, measurements of strength, and preparation of medications. Includes interconversion of units in the metric and common systems of measurement. Emphasis on unit-cancellation for solving pharmacy situation problems. 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 grade of C or better, 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: 48 Laboratory total.
Prerequisite: Concurrent enrollment in Pharmacy Technology 056. Returning students who took 056 can take PHAR 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' reaccreditation 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): 1.8
Class Hours: 18 Lecture, 30 Laboratory total. Prerequisite: Completion of Pharmacy Technology 048,054 , and 051 or 052 with grades of C or better, 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, and inpatient drug distribution using manual and automated systems. Includes electronic and manual record-keeping, pharmacy law, and CQI.


Pharmacy Technology 057L
Pharmacy Technology Skills Lab
Unit(s): 0.5-1.0
Class Hours: 48 Laboratory total.
Prerequisite: Concurrent enrollment in
Pharmacy Technology 057. Returning
students who took 057 can take PHAR 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 (PHAR 057). Additionally, this Skills Lab class allows students working in one setting of pharmacy to come back and practice skills in another setting. Skills lab class also allows students with significant time lapsed from program attendance to prepare for externship or job placements. Significant time lapsed is defined as 1 year by departmental policy, in compliance with the American Society of Health-System Pharmacists' reaccreditation 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 grade of C or better, 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: 48 Laboratory total.
Prerequisite: Concurrent enrollment in Pharmacy Technology 060. Returning students who took 060 can take PHAR 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 (PHAR 060). Additionally, this Skills Lab class allows students working in one setting of pharmacy to come back and practice skills in another setting. Skills lab class also allows students with significant time lapsed from program attendance to prepare for externship or job placements. Significant time lapsed is defined as 1 year by departmental policy, in compliance with the American Society of Health-System Pharmacists' reaccreditation 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 064
New Drug Update
Unit(s): 1.0
Class Hours: 16 Lecture total. Continuing education course for pharmacy technicians and other allied health personnel. Discussion of newly approved medications and new drug delivery methods. Includes discussion of related changes in pharmacy law.

## Pharmacy Technology 072 <br> Pharmacy Technology Externship

Unit(s): 0.5-6.0
Class Hours: 480 Laboratory total.
Prerequisite: Completion of the following classes are pre-requisites for the respective Externship Rotation: Phar 056: Retail Pharmacy Externship Rotation Phar 057 and Phar 056: Inpatient Externship (hospital) and Retail Externship Phar 060: Sterile Products Externship Classes need to be completed with grades of C or better: current TB clearance; Communication Studies 097, 101, 101 H or 102.

On-site training in three pharmacy practice settings. Students must complete the related lab course prior to placement in a specific rotation: PHAR 056 for outpatient, PHAR 057 and PHAR 056 for inpatient, PHAR 060 for sterile products. Students must pass the trade-generic test prior to placement. Some sites require additional screening. Completion of all three rotations ( 320 hours) required for the advanced certificate. Preceptors may assign NP grade for incomplete or failing competencies. Students receiving NP grades must repeat the rotation hours (40 hours increments). Open Entry/Open Exit.

## Pharmacy Technology 072L-1

Pharmacy Technology Skills Lab
Unit(s): 0.5-1.0
Class Hours: 48 Laboratory total.
Prerequisite: Concurrent enrollment in
Pharmacy Technology Externship PHAR
072. Returning students who took PHAR 056
can take PHAR 079L-1 alone
Supervised use of the Pharmacy
Technology skills lab (a supplemental learning assistance course) to assist the students in developing competency in the technical skills required to successfully complete the Outpatient Pharmacy Technology Externship rotation (PHAR 072). Additionally, this Skills Lab class allows students working in one setting of pharmacy to come back and practice skills in another setting. Skills lab class also allows students with significant time lapsed from program attendance to prepare for externship or job placements. Significant time lapsed is defined as 1 year by departmental policy, in compliance with the American Society of Health-System Pharmacists' reaccreditation 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 072L-2
Pharmacy Technology Skills Lab
Unit(s): 0.5-1.0
Class Hours: 48 Laboratory total.
Prerequisite: Concurrent enrollment in Pharmacy Technology Externship PHAR 072. Returning students who took PHAR 057 can take PHAR 072L-2 alone Supervised use of the Pharmacy Technology skills lab (a supplemental learning assistance course) to assist the students in developing competency in the technical skills required to successfully complete the Inpatient Pharmacy Technology Externship rotation (PHAR 072). Additionally, this Skills Lab class allows students working in one setting of pharmacy to come back and practice skills in another setting. Skills lab class also allows students with significant time lapsed from program attendance to prepare for externship or job placements. Significant time lapsed is defined as 1 year by departmental policy, in compliance with the American Society of Health-System Pharmacists' reaccreditation 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 072L-3
Pharmacy Technology Skills Lab
Unit(s): 0.5-1.0
Class Hours: 48 Laboratory total.
Prerequisite: Concurrent enrollment in
Pharmacy Technology Externship PHAR
072. Returning students who took PHAR 060
can take PHAR 072L-3 alone
Supervised use of the Pharmacy
Technology skills lab (a supplemental learning assistance course) to assist the students in developing competency in the technical skills required to successfully complete the Pharmacy Externship Sterile Products rotation (PHAR 072). Additionally, this Skills Lab class allows students working in one setting of pharmacy to come back and practice skills in another setting. Skills lab class also allows students with significant time lapsed from program attendance to prepare for externship or job placements. Significant time lapsed is defined as 1 year by departmental policy, in compliance with the American Society of Health-System Pharmacists' re-accreditation body. Lab hours verified by sign-in. One-half (0.5) unit is required for the Advanced Certificate and A.S. degree. Grade: Pass/ No Pass Only. Open Entry/Open Exit.

## Pharmacy Technology 080

Pharmacy Calculations Review
Unit(s): 2.0
Class Hours: 32 Lecture total.
Prerequisite: Pharmacy Technology 054.
Review of calculations related to drug dosage, measurements of strength, and preparations of medications. Includes interconversion of units in the metric and common systems of measurements. Emphasis on unit-cancellation for solving pharmacy situation problems.

## Pharmacy Technology 084

## Sterile Products Update

Unit(s): 4.5
Class Hours: 48 Lecture, 80 Laboratory total. Prerequisite: Pharmacy Technology 060 with grade of C or better.

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: 48 Laboratory total.
Prerequisite: Concurrent enrollment in Pharmacy Technology 084 Sterile Products
Update. Returning students who took PHAR
060 or PHAR 084 can take PHAR 084 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 (PHAR 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' reaccreditation 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
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.

## Philosophy 106H

Honors Introduction to Philosophy
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: A high school or college GPA of 3.0 and or above.

An enriched approach designed for honors students. A survey of historical and contemporary ideas on how to live the good life.
Philosophy 108
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.

Philosophy 110
Critical Thinking
Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: English 101 or 101 H with a
grade of C or better
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.

## Philosophy 110H <br> Honors Critical Thinking

Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: A high school or college GPA of 3.0 or above and a grade of C or better in English 101/101H.

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.
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.

## 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.

## 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.

Philosophy 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. (Same as Counseling 144)

## 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 earn 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 evolvement of photography including an in-depth view of artistic styles and individual photographers contributions from the 19th century to the present.

## 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, along with digital printing will be taught.

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.

## Photography 190

Introduction to Digital Photography
Unit(s): 3.0
Class Hours: 32 Lecture, 48 Laboratory total.
Prerequisite: Photography 180.
Introduction to digital photography.
Exploration of digital photography capabilities and uses of the "digital darkroom". Students will learn scanning,
digital printing technologies and produce both color and black and white digital images. Adjustable digital camera is required.

## Photography 191

Commercial Studio Practices (Formerly: Intermediate Digital Photography)
Unit(s): 3.0
Class Hours: 32 Lecture, 48 Laboratory total.
Prerequisite: Photography 180 with a mini-
mum 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.

## Photography 194

Digital Workflow (Formerly: Professional Digital Photography Methods)
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.

## Photography 196

Commercial Photography (Formerly:
Introduction to Commercial Photography)
Unit(s): 3.0
Class Hours: 32 Lecture, 48 Laboratory total.
Prerequisite: Photography 180 with a mini-
mum 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.

Photography 197
Intermediate Commercial Photography
Unit(s): 3.0
Class Hours: 32 Lecture, 48 Laboratory total. Prerequisite: Photography 196. 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.

## Photography 291

Wedding and Quinceanera Photography
Unit(s): 3.0
Class Hours: 32 Lecture, 48 Laboratory total. Prerequisite: Photography 180.

Instruction in fundamental concepts, equipment demands, and photographic techniques used by contemporary wedding/quinceanera photographers. May be repeated.

## 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 artifical lighting in the studio and on location.

## Photography 294

## Color Photographic Expression

Unit(s): 3.0
Class Hours: 32 Lecture, 48 Laboratory total. Prerequisite: Photography 180. Introduction to the theory and practice of printing from slides as a fine art medium. Course includes lectures, interpretive (field) assignments, laboratory work, and critiques. Camera required.

## 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)

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.

## 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.

## 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.

## Physics 210

Principles of Physics I
Unit(s): 4.0
Class Hours: 48 Lecture, 48 Laboratory total. Prerequisite: Mathematics 180/180H with a grade of C or better.

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.

## Physics 211

Principles of Physics II
Unit(s): 4.0
Class Hours: 48 Lecture, 48 Laboratory total. Prerequisite: Physics 210 and Mathematics 180/180H with a grade of C or better. 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.
Physics 217
Engineering Physics I
Unit(s): 4.0
Class Hours: 48 Lecture, 48 Laboratory total.
Prerequisite: Mathematics 180 or 180 H with a grade of C or better.

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.

Physics 227
Engineering Physics II
Unit(s): 4.0
Class Hours: 48 Lecture, 48 Laboratory total.
Prerequisite: Physics 217 and Mathematics
185 both with grade of C or better
Introduces the basic principles of electricity and magnetism. The main topics are electrostatics, circuits, magnetism, elec-tro-magnetic induction, and Maxwell's equations. This course is designed for students majoring in physical sciences and engineering.

Physics 237
Engineering Physics III
Unit(s): 4.0
Class Hours: 48 Lecture, 48 Laboratory total.
Prerequisite: Physics 217 and Mathematics
185 both with a grade of C or better 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.
Physics 279
College Physics I
Unit(s): 4.0
Class Hours: 48 Lecture, 48 Laboratory total. Prerequisite: Mathematics 160 with a grade of C or better.

A trigonometry-based physics course. Topics include: mechanics, thermodynamics, fluids, oscillatory motion, and sound.

Physics 289
College Physics II
Unit(s): 4.0
Class Hours: 48 Lecture, 48 Laboratory total.
Prerequisite: Physics 279 and Mathematics
160 both with a grade of C or better.
A trigonometry-based physics course. Topics include: light, electricity, magnetism, and modern physics.

## POLITICAL SCIENCE (POLT)

Political Science 101
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.

Political Science 101H
Honors Introduction to American

## Governments

Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: A high school or college GPA of 3.0 and 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.

Political Science 200
American Political Thought
Unit(s): 3.0
Class Hours: 48 Lecture total.
An inquiry into the major influences that have shaped American political thought. Emphasis is on an historical analysis of political thought contributing to contemporary politics.

## Political Science 200H

Honors American Political Thought
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: A high school or college GPA of 3.0 and or above.

An inquiry into the major influences that have shaped American political thought.
Emphasis is on the historical analysis of political thought contributing to contemporary politics.

## Political Science 201

Introduction to Comparative Politics
Unit(s): 3.0
Class Hours: 48 Lecture total.
A study of the histories, political cultures, and governmental arrangements of various nations and regions around the world. Comparative study is made of the "First World" or industrialized democracies, the "Second World" or former and current communist countries, and the "Third World" developing, and "Fourth World" non-developing countries.

## Political Science 220

International Politics
Unit(s): 3.0
Class Hours: 48 Lecture total. Introduction to basic principles and issues of international politics. Focus is on concepts of security, power, diplomacy, war, terrorism and globalization. Examines problems of developed versus developing nations in context of the new world order.

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.

## PSYCHOLOGY (PSYC)

Psychology 100
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): research methods, biological bases of behavior, perception, learning, memory, cognition, emotion, motivation, development, personality, social, and abnormal psychology.

## Psychology 100H

Honors Introduction to Psychology
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: A high school or college GPA
of 3.0 and or above.
Seminar-style, content-enriched course for honors students emphasizing application and critical analysis of psychological concepts. An introduction to the major theories, methods, concepts, ethical issues, and findings in the major fields in psychology including (but not limited to): research methods, biological bases of behavior, perception, learning, memory cognition, emotion, motivation, development, personality, social, and abnormal psychology.
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.

Psychology 157
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.

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.

Psychology 200
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.

Psychology 219
Introduction to Research Methods in
Psychology
Unit(s): 3.0
Class Hours: 32 Lecture, 48 Laboratory total. Prerequisite: Social Science 219 or Mathematics 219 (may be taken concurrently) and Psychology 100.

Emphasizes methods of study in psychology including: sound and ethical experimental design, analysis of variables contributing to experimental results, data treatment, and communicating findings.

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.

Psychology 240
Introduction to Social Psychology
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Psychology 100 or Sociology 100.

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.)

Psychology 250
Introduction to Abnormal Psychology
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Psychology 100, 100H. 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.

## READING (READ)

## Reading N50

Groundwork for Reading (Formerly: Reading
N50A, Reading for Non-Native Speakers of

## English - Part II)

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: P/ NP only. Grade: Pass/No Pass Only.
Reading N80
Fundamentals of Reading (Formerly: Reading N80A)
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. Not applicable to associate degree. Grade: Pass/No Pass Only.

## Reading N90

College Reading (Formerly: Reading N90A, Individualized Reading)
Unit(s): 3.0
Class Hours: 48 Lecture total.
Instruction in vocabulary, comprehension, critical evaluation and reading rate. 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 Lecture total. Individualized instruction in vocabulary, comprehension, critical evaluation, and reading rate. Grade: Pass/No Pass Only.

Reading 102
Academic Reading
Unit(s): 3.0
Class Hours: 48 Lecture total.
Introduces a repertoire of reading strategies aimed at preparing students for comprehension of complex collegelevel 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. Completion of or concurrent enrollment in English 061 recommended.

Reading 150
Critical Reading
Unit(s): 3.0
Class Hours: 48 Lecture total.
This course addresses the relationship between critical reading and 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. Completion of or concurrent enrollment in English 101 recommended.

## SCIENCE (SCI)

Science 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 and Environmental Studies 200.)

## SIGN LANGUAGE (SIGN)

Sign Language 110
American Sign Language I
Unit(s): 3.0
Class Hours: 48 Lecture total.
This introductory 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 skills, modeling of grammatical structures, and general information about American Deaf culture. Sign Language 110 is equivalent to two years of high school ASL.

Sign Language 111
American Sign Language II
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Sign Language 110.
The second course in the study of American Sign Language (ASL) focuses on vocabulary development, comprehension skills, grammatical structures and practice in the receptive and expressive aspects of ASL, as well as continued exposure to American Deaf culture. It is designed for the student or professional interested in working and interacting with the Deaf community.
Sign Language 112
American Sign Language III
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Sign Language 111.
The third course in the study of
American Sign Language (ASL) emphasizes ASL syntax, facial grammar, vocabulary, and fingerspelling enabling students to participate in more complex conversations with Deaf community members. This course enhances students' receptive and expressive skills in ASL. It is designed for the student or professional interested in working and/or interacting with the Deaf community.

Sign Language 113
Introduction to Interpreting for the Deaf
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Sign Language 112. Introduction to and survey of basic theories, principles and practices of American Sign Language Interpreting and Transliterating for the Deaf. Explores the full spectrum of the roles and ethical responsibilities of professional sign language interpreters in a variety of settings. Provides for practice of expressive and receptive skills. Includes instruction on national testing standards and preparation for certification.

Sign Language 114
Classifiers, Fingerspelling, and Numbering
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Sign Language 111.
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. Expressive and receptive techniques will be emphasized. May be repeated.

Sign Language 116
Perspective on Deafness
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.

## SMALL BUSINESS SEMINARS (SBSM)

Small Business Seminars 010
Starting a Business in Orange County
Unit(s): 0.2
Class Hours: 8 Lecture total.
An overview of what you need to know to start a business in Orange County. Topics addressed are legal structures, contracts, permits, licensing, and business planning. Grade: Pass/No Pass Only.
Small Business Seminars 011
Developing a Business Plan
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to prepare a business plan that will aid a new business owner with start-up and financing needs and a current business owner that needs to implement changes. A well written business plan is a necessity to attract capital investment from lending institutions and venture capitalists. Grade: Pass/No Pass Only.

## Small Business Seminars 012

Business Financing and Recordkeeping
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to analyze the financial structure of your business, discover funding sources and maintain financial records. Includes understanding financial statements, types and roles of financial institutions, the six C's of credit, accounting systems and government requirements. Grade: Pass/ No Pass Only.

## Small Business Seminars 013

Franchising Opportunities
Unit(s): 0.1
Class Hours: 4 Lecture total.
How to become part of the franchised operations that account for $\$ 1$ trillion in annual U.S. sales. Includes how to investigate opportunities, the elements of a franchise, and what to look for and how to understand franchise documents. Grade: Pass/No Pass Only.

Small Business Seminars 014
Tax Considerations for Small Business
Unit(s): 0.1
Class Hours: 4 Lecture total.
How to improve your tax situation by choosing the proper legal entity for your business. The primary focus will be on the five principle types of business entities in California: corporations, Subchapter S corporations, general partnerships, limited partnerships, and limited liability corporations. Grade: Pass/No Pass Only.

## Small Business Seminars 015

## Insurance Considerations for Small Business

Unit(s): 0.1
Class Hours: 4 Lecture total.
How to protect your business and personal assets with the appropriate insurance. Includes how to locate a good insurance agent, the kinds of insurance you need,
types of required insurance, and how to keep premiums low. Grade: Pass/No Pass Only.

Small Business Seminars 016

## Identifying Your Customers

Unit(s): 0.2
Class Hours: 8 Lecture total.
How to identify your target market and avoid wasting time and money in your marketing efforts. Includes the creation of a marketing plan, how to utilize market research, and apply the 4 P's of marketing. Grade: Pass/No Pass Only.

## Small Business Seminars 017

## Promoting Your Business

Unit(s): 0.2
Class Hours: 8 Lecture total.
How to increase sales through a focused promotional plan to reach your target market. Includes how to use the promotional mix of advertising, public relations, direct marketing, sales promotions, and personal selling through the appropriate selection of media channels. Grade: Pass/ No Pass Only.

Small Business Seminars 018
Intellectual Property Rights
Unit(s): 0.1
Class Hours: 4 Lecture total.
How to identify the different types of intellectual property rights that exist in the U.S. and how they relate to your business. Includes patents, trademarks, copyrights, trade secrets and confidentiality/nondisclosure agreements. Grade: Pass/No Pass Only.

## Small Business Seminars 019

E-Commerce: Developing Your Web Site
Unit(s): 0.2
Class Hours: 8 Lecture total.
How to develop an effective web site to support and enhance your small business. Provides business owners the knowledge of the appropriate hosting, design, and content to meet their customer needs and reach their business objectives. Grade: Pass/No Pass Only.

## SOCIAL SCIENCE (SOCS)

Social Science 219 (C-ID SOCI 125)
Statistics and Probability
Unit(s): 4.0
Class Hours: 80 Lecture total.
Prerequisite: Mathematics $080 / 081$ or 140 with a grade of C or better or equivalent skills as measured by the Math Level 3 Exam and a course equivalent to Mathematics 080/081 or 140.

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. (Same as Mathematics 219.)

## Social Science 219H

Honors Statistics and Probability
Unit(s): 4.0
Class Hours: 80 Lecture total.
Prerequisite: Mathematics $080 / 081$ with a grade of C or better (OR placement into Mathematics 219 on the Mathematics Level
3 placement exam AND a course equivalent to Mathematics $080 / 081$ ) AND a high school or college GPA or 3.0 or above.

Enhanced format for the beginning course in statistics and probability, using a seminar approach, computers, 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.
(Same as Mathematics 219H.)

## 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.

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 and 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.

## 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.

## Sociology 140

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.

## Sociology 140H

## 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 and 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.

## Sociology 240

Introduction to Social Psychology
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Sociology 100 or Psychology 100.

An exploration of the interlocking dynamics of psychology and sociology focusing on the impact of social groups on individual and on other groups. Content includes self-development, interaction, attitudes, conformity, friendship, love, aggression, group dynamics. (Same as Psychology 240.)

## SPANISH (SPAN)

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.

## Spanish 101

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.

## Spanish 101H

Honors Elementary Spanish I
Unit(s): 5.0
Class Hours: 80 Lecture total.
Prerequisite: A high school or college GPA of 3.0 and 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 101 H is equivalent to two years of high school Spanish.

## Spanish 102

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 grade of C or better.

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.

## Spanish 102H

Honors Elementary Spanish II
Unit(s): 5.0
Class Hours: 80 Lecture total.
Prerequisite: Spanish 101/101H, or two years of high school Spanish 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 102 H is equivalent to the third year of high school Spanish.

## Spanish 195A

Advanced Conversational Spanish
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Spanish 102 or 102 H .
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.

## Spanish 195B

Advanced Conversational Spanish
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Spanish 195A.
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.

## Spanish 201

## Intermediate Spanish I

Unit(s): 5.0
Class Hours: 80 Lecture total.
Prerequisite: Spanish 102 or 102 H 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.

## Spanish 201H

Honors Intermediate Spanish I
Unit(s): 5.0
Class Hours: 80 Lecture total.
Prerequisite: Spanish 102 or 102H, or three years of high school Spanish, 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. Independent research by students to use/evaluate library and electronic information sources.

## Spanish 202

Intermediate Spanish II
Unit(s): 5.0
Class Hours: 80 Lecture total.
Prerequisite: Spanish 201 or 201 H or four 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 in Spanish of interpretive reading materials; conversation and composition.

Spanish 202H
Honors Intermediate Spanish II
Unit(s): 5.0
Class Hours: 80 Lecture total.
Prerequisite: Spanish 201/201H, or four
years of high school Spanish 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. Independent research by students to use/evaluate library and electronic information sources.

Spanish 212

## College Business Spanish

Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Spanish 202 or 202 H with a grade of C or better or three years of high school Spanish with a grade of C or better. A course designed to give intermediate level students a solid foundation in business vocabulary, basic business and cultural concepts, and 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.

## Spanish 213

College Spanish Composition
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Spanish 201 with a grade of C or better or three years of high school Spanish with a grade of C or better: Concurrent enrollment in Spanish 201.

Writing of composition through discussions and interpretive readings.

## 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 audiologically verifiable hearing loss. Not applicable to associate degree. May be repeated. Open Entry/Open Exit.

Special Services N50B
English for the Deaf and Hard of Hearing
Unit(s): 0.5-3.0
Class Hours: 48 Lecture total.
Mechanics of the English language and composition for the deaf or hard of hearing student 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 audiologically verifiable hearing loss. Not applicable to associate degree. Open Entry/Open Exit.

## Special Services N51

Speech and Language Development
Unit(s): 0.5-1.0
Class Hours: 16 Lecture total.
Individualized or small group instruction for speech/language/hearing disabilities. Emphasis on communication disabilities of pronunciation, stuttering, aphasia, voice and hearing. Arranged schedule. (Same as Speech Communication N51.) May be repeated. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Special Services N57
Acquired Brain Impairment Language
Recovery
Unit(s): 0.5-1.0
Class Hours: 8-16 Lecture total.
Individualized/small group instruction
for students with cognitive/language
problems from stroke or head trauma.
See instructor to arrange schedule. Not applicable to associate degree. (Same as Speech Communication N57). May be repeated. Grade: Pass/No Pass Only. Open Entry/Open Exit.

## Special Services N63

Advances in Learning Potential
Unit(s): 0.2-1.8
Class Hours: 10-90 Laboratory total.
Designed to improve learning efficiency through monitoring academic programs, teaching organizational and learning strategies, and providing specialized tutoring. Student must have a verifiable disability. Not applicable to associate degree. May be repeated. Grade: Pass/No Pass Only. Open Entry/Open Exit.

## Special Services N83

Career Exploration
Unit(s): 0.5
Class Hours: 8 Lecture total.
Designed to assist students in exploration of appropriate career areas. Includes vocational assessment, self-awareness, goal setting, job market outlook, individualized task analysis of jobs, career planning and job search techniques. Open to students with disabilities in the WorkAbility Program. Not applicable to Associates of Arts and Science degrees. Grade: Pass/ No Pass Only. Open Entry/Open Exit.

Special Services N84
Employment Preparation
Unit(s): 0.5-3.0
Class Hours: 48 Lecture total.
A comprehensive course designed to prepare students for the transition between school and employment. Includes identifying appropriate job/career goals, assessing personal strengths, developing skills to obtain employment such as resume writing and interviewing, and utilizing SCAN competencies for employment retention and advancement. Arranged schedule. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Special Services N91
Fundamentals of Cognitive Learning
Unit(s): 0.5-1.5
Class Hours: 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. 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: 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: 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.

## Special Services 205

Exceptionality and Special Needs in Human
Development
Unit(s): 3.0
Class Hours: 48 Lecture total. Study of diseases and disorders found in children resulting in exceptionality, including mental retardation; visual, speech, and hearing impairments; behavior disorders, learning disabilities and physicalities and physical and health impairments. (Same as Human Development 205.)

## 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.

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.

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 grade of C or better. 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.

Speech Language Pathology Assistant 150 Observation of Speech-Language Pathology

## Clinical Practices

## Unit(s): 0.5

Class Hours: 28 Laboratory total. Prerequisite: SLPA 118 with grade of "C" or better and concurrent enrollment in SLPA 160.

Beginning clinical observation of practices and procedures required in speechlanguage pathology. Observation sites will be both educational and medical.

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.

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, 150 and 160 with grade of C
or better.
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.

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, 150, 160; concurrent enrollment in Speech Language Pathology Assistant 180; Application to Department Coordinator required prior to enrollment; Current TB Clearance; Fingerprinting and background check; Current CPR and First Aid Certification.

Application of supervised clinical practice procedures as required of a speechlanguage pathology assistant in an educational setting.
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 grade of C or better.
Speech, language, and hearing disorders experienced by the adult and geriatric populations. Assessment tools and treatment strategies used to treat aquired disorders such as adult aphasia, dysarthria, and hearing loss.
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, 190. Application to Department Coordinator required prior to enrollment; current 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.

## 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 timemanagement. Students learn personal growth methods and develop strategies to effectively deal with issues to ensure personal, educational, and career success.

## TV/VIDEO COMMUNICATIONS (TELV)

TV/Video Communications 009
Television/Video Communications
Laboratory
Unit(s): 0.5
Class Hours: 24 Laboratory total.
Sign-in/out supervised work on television projects/production assigned in TV/Video Communications classes 110 or above or on independent projects. Completion of new assignments each semester. Accumulation of 24 hours earns 0.5 unit. Requires concurrent enrollment in courses 110 or above. May be repeated. Grade: Pass/No Pass Only. Open Entry/ Open Exit.
TV/Video Communications 010
Television/Video Communications Advanced Laboratory
Unit(s): 0.5
Class Hours: 24 Laboratory total.
Sign-in/out supervised work on advanced television projects/production assigned in TV/Video Communications classes 110 or above or on independent projects. Completion of new and more advanced assignments each semester. Accumulation of 24 hours earns 0.5 unit. Requires concurrrent enrollment in classes Television/ Video Communications 110 or higher. May be repeated. 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.

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 videotape viewings and guest speakers.

## 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 1890's to 1945.

## 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.

TV/Video Communications 105
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.

TV/Video Communications 105H
Honors Mass Media and Society
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: A high school or college CPA 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.

TV/Video Communications 110
Introduction to Television Production
Unit(s): 3.0
Class Hours: 48 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. Prior or concurrent enrollment in TV/Video Communications 100 recommended.

TV/Video Communications 112
Introduction to Video Editing \&
Postproduction
Unit(s): 3.0
Class Hours: 48 Lecture, 48 Laboratory total. Fundamental methods and techniques used to edit video for TV, film, web and multi-media. Hands-on training in basic operation of Final Cut Pro digital non-linear editing system and software. Completion of Television/Video 110 or concurrent enrollment recommended.

## TV/Video Communications 114

## Advanced Video Postproduction

Unit(s): 3.0
Class Hours: 48 Lecture, 48 Laboratory total.
Prerequisite: Television/Video Communica-
tions 112 with a grade of C or better.
Advanced editing theory and techniques for television, film, web and multi-media. Utilizes digital nonlinear video editing and special effects systems. May be repeated.

## TV/Video Communications 115A

## Single-Camera Production and Editing

## Unit(s): 3.0

Class Hours: 48 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 digital video and audio production equipment, as well as lighting. Prior or concurrent enrollment in Television/ Video Communications 110 and 112 recommended.

## TV/Video Communications 115B

Advanced Single-Camera Production and Editing
Unit(s): 3.0
Class Hours: 48 Lecture, 48 Laboratory total.
Prerequisite: Television/Video Communica-
tions 120
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.

TV/Video Communications 120
Beginning Writing for Tv, Film, the Internet and Corporate Video
Unit(s): 3.0
Class Hours: 48 Lecture total. Designed to acquaint students with practical approaches to writing for television, motion picture, the internet and corporate video. Emphasis on the development of story treatments and first drafts of scripts. Grade of C or better in English 101 recommended.

TV/Video Communications 121
Intermediate Writing for Tv, Film, the
Internet and Corporate Video
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Television/Video Communications 120.

A course exploring professional requirements of the TV, film, internet or corporate scriptwriter intended to strengthen fundamental writing skills in relation to their role in production, direction, and series development.
TV/Video Communications 123
Advanced Writing Projects for TV, Film, The Internet, and Corporate Video
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Television/Video Communications 121 with a grade of C or better.

Explores professional requirements for writing all TV, film, the internet and corporate video genre. Individual projects will improve and extend students writing skills and related techniques in production, direction, and series development. May be repeated.

## TV/Video Communications 130

Principles of Broadcast News
Unit(s): 3.0
Class Hours: 32 Lecture, 48 Laboratory total Introduction to broadcast journalism 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.

TV/Video Communications 131
Beginning Broadcast News Workshop
(Formerly: Broadcast News Summer
Workshop)
Unit(s): 2.0
Class Hours: 32 Lecture, 32 Laboratory total. Group instruction for beginners in news writing, reporting, interviewing, and on-canera techniques for appearing on a student-produced cable newscast. Basic training also will include in-studio production techniques.

## TV/Video Communications 132

Intermediate Broadcast News Workshop
Unit(s): 2.0
Class Hours: 32 Lecture, 32 Laboratory total. Prerequisite: TELV 130 with a minimum grade of C or TELV 131 with a minimum grade of C

Group instruction for intermediate level students in the writing and preparation of news, entertainment and sports segments for a weekly TV newscast. Participation in studio production work and on-camera appearance will also be emphasized.

## TV/Video Communications 133

Advanced Broadcast News Workshop
Unit(s): 2.0
Class Hours: 32 Lecture, 32 Laboratory total. Prerequisite: TELV 132 with a minimum grade of C

Group instruction for advanced level students in writing and preparation of news, entertainment and sports segments for a weekly TV newscast. Emphasis placed on advanced reporting, camera, and editing techniques as well as producing and directing the news show.

## TV/Video Communications 141

On-Camera Appearance
Unit(s): 3.0
Class Hours: 32 Lecture, 48 Laboratory total. Training and grooming for on-camera appearance and television announcing skills for business pros and those seeking careers in broadcasting and webcasting. Prior or concurrent enrollment in Television/Video Communications 130 or 143 recommended.

## TV/Video Communications 142

Acting for Television and Film
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.)

TV/Video Communications 150
Producing and Directing for Television Unit(s): 3.0
Class Hours: 48 Lecture, 48 Laboratory total. Prerequisite: Television/Video Communications 110 with a grade of C or better. 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 Television/Video Communications 110, 112 and 115A recommended.

TV/Video Communications 161
Fundamentals of Audio for TV \& Film
Unit(s): 1.5
Class Hours: 24 Lecture, 24 Laboratory total. Introduction to the technical aspects of audio systems used for television production in both studio and field. Provides overview of sound characteristics and requirements. Emphasizes application and operation of audio control and recording devices. Prior or concurrent enrollment in Television/Video Communications 110 recommended.

## TV/Video Communications 165

DVD Authoring
Unit(s): 3.0
Class Hours: 48 Lecture, 48 Laboratory total. Introduction to DVD technology and authoring process. Learn to operate digital video workstation and create professional DVD presentations that contain interactive menus. Prior or concurrent enrollment in either Television/ Communications 110 and 112 is recommended.

## TV/Video Communications 181

## 3-D Modeling

Unit(s): 5.0
Class Hours: 48 Lecture, 96 Laboratory total.
Prerequisite: Art 195
Instruction in digital 3D modeling using 3D Studio Max from introductory to high-intermediate level. Course includes orientation to the software interface, lectures and tutorials on how to build objects using primitives, modifiers, polygonal and Spline modeling methods. Emphasis on practical application in games, architecture, and film. (Same as Art 196A).

## TV/Video Communications 185 <br> 3-D Animation

Unit(s): 5.0
Class Hours: 48 Lecture, 96 Laboratory total.
Prerequisite: Art 196A or Television/Video
Communications 181.
This course teaches how to use 3d animation software for the purpose of linear storytelling. Emphasis placed on the incorporation of the classic principles of animation, and in learning the core components of the software that are necessary to know for effective visual communication. (Same as Art 197A)

## TV/Video Communications 187

Electronic Graphics for Television, Advanced Techniques
Unit(s): 2.0
Class Hours: 16 Lecture, 48 Laboratory total. Prerequisite: Television/Video Communications 180 with a grade of C or better. Study and application of advanced methods and processes for the production of electronic graphics for TV. Concept and development of electronic graphics from storyboards through finished digital product.

## TV/Video Communications 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 postproduction 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.)

TV/Video Communications 230A
Broadcast News Production
Unit(s): 4.0
Class Hours: 32 Lecture, 112 Laboratory total.
Prerequisite: Television/Video Communications 130 .

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 recommended.

## TV/Video Communications 230B

Broadcast News Production
Unit(s): 4.0
Class Hours: 32 Lecture, 112 Laboratory total.
Prerequisite: Television/Video Communications 230A.

Emphasizes actual live production of a weekly on-air cable newscast using latest newsgathering methodology and equipment. Assignments vary in subsequent semesters.

## TV/Video Communications 230C <br> Broadcast News Production

Unit(s): 4.0
Class Hours: 32 Lecture, 112 Laboratory total.
Prerequisite: Television/Video Communications 230B.

Emphasizes actual live production of a weekly on-air cable newscast using latest newsgathering methodology and equipment. Assignments vary in subsequent semesters.

TV/Video Communications 230D
Broadcast News Production
Unit(s): 4.0
Class Hours: 32 Lecture, 112 Laboratory total.
Prerequisite: Television/Video Communications 230C.

Emphasizes actual live production of a weekly on-air cable newscast using latest newsgathering methodology and equipment. Assignments vary in subsequent semesters.

## TV/Video Communications 260

## Lighting Systems and Techniques for TV/

Video
Unit(s): 1.5
Class Hours: 24 Lecture, 24 Laboratory total. Study of television lighting systems and techniques used in studio and location production environments. Includes hands-on training and overview of instruments, light control and electrical power requirements. Prior or concurrent enrollment in Television/Video Communications 110 recommended.

TV/Video Communications 298
TV/Video Communications Practicum/ Internship
Unit(s): 3.0
Class Hours: 8 Lecture, 144 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. May be repeated. Grade: Pass/No Pass Only. Open Entry/Open Exit.

## 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.
Theatre Arts 105
A Cultural History of World Theatre
Unit(s): 3.0
Class Hours: 48 Lecture total.
History of theatre from earliest recordings to today's Post Modern genres. Used of theatre to express ideas about religion, cultural identity, myths, and social ideals. Includes Western and Eastern traditions, focusing on Europe, Japan, India, China, Africa, Latin America, and America. Use of taped performances from several countries enhance the course presentation.

## Theatre Arts 110

## 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.

Theatre Arts 111
Intermediate Acting
Unit(s): 3.0
Class Hours: 48 Lecture, 16 Laboratory total. Prerequisite: Theatre Arts 110.

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.

Theatre Arts 113
Acting for Television and Film
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.)

Theatre Arts 118
Fundamentals of Scene Study
Unit(s): 2.0
Class Hours: 32 Lecture, 32 Laboratory total.
Prerequisite: Theatre Arts 110.
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.

Theatre Arts 131 (C-ID THTR 171) Stagecraft
Unit(s): 3.0
Class Hours: 48 Lecture, 32 Laboratory total. Introduction to technical theatre including basic principles of scenic design; construction, and painting; principles of lighting design, technology and process; plus stage and scene shop procedures. Preparation for on stage crew assignments. Concurrent enrollment in Theatre Arts 135 is recommended.

## 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 charcterizations. Practical application of learned skills are applied to departmental productions.

Theatre Arts 133 (C-ID THTR 173)
Stage Lighting
Unit(s): 3.0
Class Hours: 32 Lecture, 48 Laboratory total. Theory and practice of modern stage lighting including the properties and characteristics of varied conventional control systems and instruments. Techniques for proper installation, maintenance and safety are included.

## Theatre Arts 135 (C-ID THTR 192) <br> Technical Production

## Unit(s): 1.0

Class Hours: 80 Laboratory total. Supervised instruction and practical application in stage production techniques. Each repetition presents more advanced material. May be repeated.

Theatre Arts 150 (C-ID THTR 192)
Theatre Production
Unit(s): 2.0
Class Hours: 16 Lecture, 96 Laboratory total. Practical experience in performance production or technical production culminating in a series of public performances. Students desiring an acting role must audition. May be repeated.

## Theatre Arts 151

## Showcase

Unit(s): 3.0
Class Hours: 48 Lecture, 48 Laboratory total. A study of the actor's process in the development of a character in a live staged performance. Rehearsal and performance hours arranged. May be repeated.

## Theatre Arts 152

Tour Ensemble
Unit(s): 2.0
Class Hours: 16 Lecture, 48 Laboratory total.
Prerequisite: Audition.
Acting ensemble providing performance experience for advanced students.
Audition required. May be repeated.

## Theatre Arts 153

## Introduction to Directing

Unit(s): 2.0
Class Hours: 32 Lecture, 32 Laboratory total.
Prerequisite: By interview only.
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.

## Theatre Arts 154

Performance Ensemble
Unit(s): 2.0
Class Hours: 32 Lecture, 32 Laboratory total.
Prerequisite: Theatre Arts 110 or 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.

## Theatre Arts 155

## Children's Theatre Ensemble

Unit(s): 2.0
Class Hours: 16 Lecture, 96 Laboratory total.
Prerequisite: Audition.
Intensive rehearsal and performance experience leading to an extendedrun Children's Theatre production.
Preparation for repertory theatre production experience. May be repeated.

## 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. May be repeated.

Theatre Arts 165
Introduction to Intelligent Lighting
Unit(s): 2.0
Class Hours: 24 Lecture, 24 Laboratory total. 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.

Theatre Arts 166A

## Intermediate Programming

## Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total. Further development of the control and programming skills essential in the utilizaton of automated lighting equipment as required for employment. Develop an awareness of multiple automated control consoles and an awareness in lighting design.

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.

## 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.

Theatre Arts 170
Entertainment Technology Internship
Unit(s): 1.0
Class Hours: 8 Lecture, 48 Laboratory total. Supervised field work in one or more of areas of backstage technologies including lighting, sound, and stagecraft. Skills are assessed before placement to match abilities with job requirements. May be repeated. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Theatre Arts 250
Advanced Theatre Production
Unit(s): 2.0
Class Hours: 16 Lecture, 96 Laboratory total. 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. May be repeated.

## 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.

Vietnamese 102
Elementary Vietnamese II
Unit(s): 5.0
Class Hours: 80 Lecture total.
Prerequisite: Vietnamese 101.
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.

## WELDING (WELD)

## 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 008 and Diesel 008.)

Welding 020
Welding Laboratory
Unit(s): 0.5-10.0
Class Hours: 480 Laboratory total.
Prerequisite: Concurrent enrollment in any welding course required.

Independent practice for advanced knowledge and skills development in specific areas of welding technology. Students furnish own equipment. Grade: Pass/No Pass Only.

## Welding 025A

Intermediate Arc Welding Level I (Formerly: Welding 025, Intermediate Arc Welding)
Unit(s): 3.0
Class Hours: 16 Lecture, 96 Laboratory total Prerequisite: Welding 008, satisfactory completion of proficiency exam in arc welding skills, and concurrent enrollment in Welding 020.

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).

## Welding 025B <br> Intermediate Arc Welding Level II

Class Hours: 16 Lecture, 96 Laboratory total. Prerequisite: Welding 008 with a minimum grade of C and Welding 025 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 previously 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).

## Welding 029A

Advanced Arc Welding Level I (Formerly: Welding 029, Advanced Arc Welding)
Unit(s): 3.0
Class Hours: 16 Lecture, 96 Laboratory total. Prerequisite: Welding 008, satisfactory completion of proficiency exam in arc welding skills, and concurrent enrollment in Welding 020.

Provides advanced manipulative skills and technical knowledge needed to pass a 1 " plate guided bended test required for structural steel certification.

Welding 029B
Advanced Arc Welding Level II
Unit(s): 3.0
Class Hours: 16 Lecture, 96 Laboratory total. Prerequisite: Welding 029A with a minimum grade of C or reasonable 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.

## Welding 029C

## Advanced Arc Welding Level III

Unit(s): 3.0
Class Hours: 16 Lecture, 96 Laboratory total. Prerequisite: Welding 029B with a minimum grade of C or reasonable 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.

## Welding 029D

## Advanced Arc Welding Level IV

Unit(s): 3.0
Class Hours: 16 Lecture, 96 Laboratory total. Prerequisite: Welding 029C with a minimum grade of C or Reasonable 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)

Welding 039A
Inert Gas Welding Level I (Formerly: Welding 039 Inert Gas Welding)
Unit(s): 3.0
Class Hours: 16 Lecture, 96 Laboratory total.
Prerequisite: Welding 008 and concurrent enrollment in Welding 020.

Gas shielded welding, TIG and MIG welding of aluminum, mild and stainless steel. Students to furnish protective safety devices.

## Welding 039B

## Inert Gas Welding Level II

Unit(s): 3.0
Class Hours: 16 Lecture, 96 Laboratory total. Prerequisite: Welding 039A with a minimum grade of C or reasonable completion of proficiency exam in inert gas welding skills administered by the SAC Welding Instructor Gas tungsten arc welding, (GTAW) and metal inert gas welding (MIG) of aluminum, mild and stainless steel. This is an advanced welding course using the gas tungsten arc welding (GTAW) process. This course is intended to further the skills of the student in this process. Special emphasis is placed on the horizontal position.

## Welding 039C

Inert Gas Welding Level III
Unit(s): 3.0
Class Hours: 16 Lecture, 96 Laboratory total. Prerequisite: Welding 039B with a minimum grade of C or Reasonable completion of proficiency exam in inert gas welding skills administered by the SAC Welding Instructor Gas tungsten arc welding (GTAW) and metal inert gas welding (Mig) of aluminum, mild and stainless steel. 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.

## Welding 040A

Welding Certification Training Level I (Formerly: Welding 040 Welding Certification Training)
Unit(s): 3.0
Class Hours: 16 Lecture, 96 Laboratory total. Prerequisite: Welding 008 , satisfactory completion of proficiency exam in arc welding skills, and concurrent enrollment in Welding 020.

This is an advanced course that will provide lecture and hands-on practice in welding in multiple areas of certification using SMAW (shielded metal arc welding) as well as in FCAW (flux cored arc welding). The student will focus on welding in the vertical and overhead position and the preparation of test plates.

## Welding 040B

Welding Training Certification Level II
Unit(s): 3.0
Class Hours: 16 Lecture, 96 Laboratory total. Prerequisite: Welding 040A with a minimum grade of C or reasonable 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 SMAW (shielded metal arc welding) as well as in FCAW (flux cored arc welding) in the vertical and overhead positions. The student will focus on welding with the SMAW, FCAW and pipe in the 1 G and 2 G positions using E6010 electrode.

## Welding 040C

Welding Certification Training Level III
Unit(s): 3.0
Class Hours: 16 Lecture, 96 Laboratory total Prerequisite: Welding 040A with a minimum grade of C. 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 SMAW (shielded metal arc welding) as well as in FCAW (flux cored arc welding) in the vertical and overhead positions. The student will focus on welding with the SMAW, FCAW and pipe in the 5 G and 6 G positions using E6010 electrode.

## Welding 041

Welding Certification Exam Preparation
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Welding 008 or 098, Intermediate Arc Welding or Welding 025.

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. May be repeated.

## Welding 041A

Welding Certification Exam Preparation Level I (Formerly: Welding 041, Welding
Certification Exam Preparation)
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Welding 008 or Welding 025 with a minimum grade of C

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.

Welding 041B
Welding Certification Exam Preparation

## Level II

Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Welding 041A 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 leading to Los Angeles City or AWS Welding Certifications.

## Welding 053

Math/Blue Print Reading for Welders Level I
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.

## 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.

## 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.
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## CONTINUING EDUCATION

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SANTA ANA COLLEGE / SANTIAGO CANYON COLLEGE INSTRUCTIONAL CALENDARS

## CONTINUING EDUCATION DIVISION INSTRUCTIONAL CALENDAR 2013-2014

FALL SEMESTER 2013

August 19-23
August 26
September 2
November 11
November 25-30
December 21
December 22-January 22

## SPRING SEMESTER 2014

January 17, 21, 22
January 23
January 20
February 14-15
February 17
March 28
April 7-12*
May 26
June 5
June 6
June7

## SUMMER SESSION 2014

July 1
July 4
August 9

## COLLEGE CREDIT CLASSES

INSTRUCTIONAL CALENDAR 2013-2014
FALL SEMESTER 2013
August 19-21
August 22-23
August 26
September 2
September 8
September 27
October 18
November 11
November 17
November 28-30
December 15
December 16-January 5
SPRING SEMESTER 2014
January 20
January 21-22
January 23-24
January 27
February 9
February 14
February 17
February 28
March 7
March 24-29
March 28
April 27
May 22
May 23
May 25

Faculty projects
Common college flex days
INSTRUCTION BEGINS
Labor Day- holiday
Last day to add and to drop full-term classes without "W" grade with enrollment fee refund
Last day to file Pass/No Pass
Deadline for Graduation Petition
Veterans' Day - holiday
Last day to drop semester-length
classes with a "W" grade
Thanksgiving - holiday
INSTRUCTION ENDS
Holiday break

SUMMER SESSION 2014

## SUBJECT TO CANCELLATION

## May 26

June 16
June 20
July 4
August 10

King's Birthday - holiday
Faculty projects
Common college flex days
INSTRUCTION BEGINS
Last day to add and to drop full-term classes without "W" grade with enrollment fee refund
Lincoln's Birthday - holiday
President's day - holiday
Last day to file Pass/No Pass
Deadline for Graduation Petition
Spring recess
Cesar Chavez Day
Last day to drop semester-length
classes with "W" grade
Commencement - Santa Ana College
Commencement - Santiago Canyon College
INSTRUCTION ENDS

* could change to correspond with unified school district
** beginning date could be adjusted
$\dagger$ SAC/SCE Spring recess dates may be adjusted to correspond to unified school district instructional calendar.

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SEPTEMBER•2013

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## 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.

## Child Care Licensing Program

1. Provides child care licensing programs so students can obtain employment or open their own child care home business.

## Citizenship Preparation

1. Prepares students for the United States citizenship interview and examination process.
2. Teaches students about the rights and benefits of becoming U.S. citizens.

## Developmentally Disabled Adults

1. Provides opportunities for the realization of individual potentials in the areas of education, work, and social interaction.

## English as a Second Language

1. Develops English competency for basic community survival in non-native speakers.
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 life skills that can be used as a basis for life long 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.

## Health and Safety Education

1. Provides courses that promote health and disease prevention
2. Promotes healthy practices to build awareness and develop skills that support physical, mental and environmental health.
3. Provides courses to address personal security and safety awareness.

## GED Certificate Preparation

1. Assists students in preparing for the GED examination.

## 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 decisionmaking 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.

## 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.

## English as a Second Language

Instruction in English from beginning to intermediate levels is offered at various locations throughout the district for nonEnglish speaking adults.

## GED Preparation

Prepares adults to pass the GED high school equivalency exam.

## 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.

## Adult High School Diploma Program

Provides all courses necessary to obtain a high school diploma through both traditional and individualized instruction methods.

## 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 <br> Provides courses to assist developmentally disabled adults with basic academic skills and independent living skills.

## Vocational Training Programs

Provides employment preparation focusing on general workforce preparation skills and specific vocational training including independent laboratory instruction, and technology training.

## 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
- orientatioin 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.

## Learning Skills Program

Provides comprehensive assessment in perceptual skills, reading, mathematics, spelling, and writing for adults with learning disabilities.

## Student Development Program

Provides activities for students which include student government experience, leadership training, conferences, and various student clubs.

## Summer Sessions

Both day and evening classes are offered in the summer at various locations.

## Testing

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.

## Veteran's Service

Counseling and guidance for veterans is provided at SAC campus.

## 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
714-564-6173

## 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 two designated coin operated lots located on the south side of the campus. The parking fee is payable at the Student Business Office on the college campuses. Parking permits are required by the second week of the term.

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 the:

## 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

$$
\begin{aligned}
& 9 \text { a.m. }-7 \text { p.m. } \\
& 9 \text { a.m. }-6 \mathrm{p} . \mathrm{m} . \\
& \text { Closed }
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Thursday
Friday \& Saturday

## 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, 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 40.0 (a maximum of 10 credits of reading; must include at least one composition course)

Mathematics
20.0

Natural Sciences
(must include both a biological
and a physical science course)
Social and Behavioral Sciences 30.0 (must include U.S. History, World Geography, World History, American Government, Economics and a Social Science elective)

Humanities
TOTAL $\begin{array}{r}10.0 \\ 40.0 \\ \hline 160.0\end{array}$
Electives

There may be additional requirements due to Title 5 changes for the 2013-2014 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 Math Fundamental I and II 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.

Thissection 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. Testing

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 CoursesCredit 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. Learning Skills Credit

A maximum of 35 credits in Learning Skills will be allowed toward HSS graduation credit in the elective area, including work experience (see page 229).
2. Computer Learning Skills

High School elective credit for selected CTE/basic computer courses offered through the Business Skills Department can be awarded.

## 3. ESL Credit

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.
4. Adult Basic Education

Up to 15 HSS elective credits are granted when student successfuly complete ABE reading, ABE math, and ABE writing.

STUDENT SERVICES AND SPECIAL NEEDS

## Testing

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 ever-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.

## Learning Skills Program

The primary goal of the Learning Skills Program is to provide support services necessary to enable Continuing Education students with learning disabilities to successfully participate in Adult Basic Education programs, High School Subjects, or regular college programs and activities.

The psychometrist and Learning Disability Specialist will determine student potential and competency levels. An individualized educational plan containing goals and objectives will be written for each student, and support services will be provided if necessary. Student progress will be monitored on an on-going basis with reviews and amendments of the individualized plan as needed each semester.

Services and accommodations are provided for all qualified students with disabilities who apply for services.

## 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

P Pass
W Withdrawal 0 grade points
CIP In Progress 0 grade points
SP Satisfactory Progress
NP No Measurable Progress
COM Completed
C. Procedures for Student Complaints Regarding Grades

1. Education Code 76224 states:
"When grades are given for any course of instruction taught in a community college district, the grade given to each student shall be the grade determined by the instructor for the course; and the determination of the student's grade by the instructor, in the absence of mistake, fraud, bad faith, or incompetence, shall be final."

## 2. Procedure

a. Student shall meet with instructor to discuss grade.
b. If the issue is not resolved, and the student believes that the grade is based on mistake, fraud, bad faith or incompetency (EC 76224), an appeal in writing may be made to the Dean-Continuing Education.

Forms of written appeal may be found in the office of the Area Dean of Instruction and Student Services.
c. The student may be requested to set up an appointment with the Dean-Continuing Education to discuss the written complaint.
d. The Dean-Continuing Education will review the allegations and may consult with the instructor.
e. The Dean-Continuing Education will review the issue and will notify the student and instructor in writing of the decision.
f. The decision of the Dean-Continuing Education is final.

## D. Complaint Procedures for Students

Students may file a complaint when they believe they have been deprived of a right granted to students by the Board of Trustees in any of the policies or regulations of the Rancho Santiago Community College District.

The purpose of these complaint procedures is to resolve differences as fairly and expeditiously as possible while preserving the rights of students and staff members.

1. Definitions

Days: number of days refers to the days when the District offices are open.
Committee: Continuing Education Student Complaint Committee.

## 2. Procedure

a. Students shall first confer with the staff member who took action or made the ruling to which they object no later than ten days following the event which prompted the complaint.

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's 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
4. This program represents a cooperative venture between Rancho Santiago Community College District, neighboring high schools and the School of Continuing Education.
5. 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.
6. 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.
7. Repeating a course already passed will result in a credit-only gradenot a letter grade.

8. 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.
9. 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 communitybased 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 available in the office of the Area Dean of Instruction and Student Services.

After review and explanation, students may challenge any information relating to them if they believe the information to be inaccurate, misleading, or otherwise in violation of their rights of privacy or other rights. Any student wishing to exercise this right of challenge shall inform the Area Dean of Instruction and Student Services, or the Dean-Admissions and Records.

If students wish, copies of materials contained in the files subject to their review will be provided at a cost of $\$ 1.00$ 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.

SCHOOL OF CONTINUING EDUCATION CENTENNIAL EDUCATION CENTER


#### Abstract

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 am11:45 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 and knowledge to 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, from beginning English to high intermediate, instruction in pronunciation, and fluency building. Students acquire knowledge of survival skills, customs, and cultural information, as well as language skills necessary for employment and to function effectively in their day-to-day 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.

Pronunciation classes at Centennial Education Center are designed to help students improve their listening and speaking skills. Students have an opportunity to listen to English in terms of sound patterns, vocabulary improvement, grammar practice, listening comprehension and vocationally oriented materials. Students both selfmonitor and are monitored by the instructor, and follow a prescribed program in conjunction with other English classes.

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.

School of Continuing Education DSPS Learning Disabilities Program 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 aids, 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.

## NONCREDIT <br> 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 competencybased objectives.
Some noncredit programs offer a sequence of courses leading to a certificate.
The class schedule should be consulted for current offerings.

## 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 Cousrses: | Units |
| :--- | ---: |
| HSS Social Science 218, U.S. History 1, <br> Colonization to Industrialization | 5 |
| HSS Social Science 219, U.S. History 2, <br> The Shaping of Modern America | 5 |
| HSS Social Science 222, Government 1, <br> U.S. Federal Government and Politics | 5 |
| Plus a minimum of 145 required units from the <br> following courses: | 145 |
|  | TOTAL |

## Electives:

Adult Basic Education 009, 017, 018, 019, 022, 044, 060, 121, 137; Home Economics 520; Health \& Safety 877;

HSS General 010, 032, 144, 229, 770, 338; GED Studies 031, 033; Study Skills 221, 222; English, 040, 055, 056, 057, 058, 065, 066, 067, 068, $070,072,076,083,084,085,095,097,703,704,705,706,707,708$; Reading 089, 093, 094; Math 140, 154, 155, 158, 159, 163, 164, 165 , 166, 167, 168, 170, 172, 173, 175; Science 180, 185, 186, 188, 189, 190, 191, 192, 193, 195, 196, 197; Social Science 215, 223, 224, 225, 228, 231, 232; Fine Arts 500, 601, 602, 603, 604, 605, 606, 701, 702, 828, 845, 846, 847; Leadership 090, 092, 093, 094; Other 741, 742, 743, 744, 749, 772, 875.

## 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.

## Core Courses:

Adult Basic Education 009, Adults Basic Education Skills
GED Studies 031, GED Test Preparation

## Elective:

English as a Second Language 480, Intermediate ESL 3

## 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 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.
Choose 1:
ESL 703, Academic ESL, Beginning 3
ESL 711, Academic ESL, Intermediate 1

## Choose 1:

ESL 120, ESL Civics
ESL 140, VESL Childcare Educators
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 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.

## Choose 1:

ESL 712, Academic ESL Intermediate 2
ESL 713, Academic ESL Intermediate 3
Choose 1:
ESL 120, ESL Civics
ESL 140, VESL Childcare Educators
ESL 395, ESL Writing B
ESL 398, Community Learning Center
ESL 490, Advanced 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 711, Academic ESL Intermediate 1
ESL 712, Academic ESL Intermediate 2
ESL 713, Academic ESL Intermediate 3
Choose 1:
ABE 009

## 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 711, Academic ESL Intermediate 1
ESL 712, Academic ESL Intermediate 2
ESL 713, Academic ESL Intermediate 3
Choose 1:
HSRDG 089, Reading Proficiency Development
HSRDG 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.
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 COMPLETION

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.
ESL 520, VESL: English for Work 2

## Choose 1:

ESL 398, Community Learning Center
ESL 120, ESL Civics
ESL 140, VESL Childcare Educators
ESL 394, ESL Writing A
ESL 395, ESL Writing B
ESL 398, Community Learning Center
ESL 530, American English Pronunciation
ESL 570, Conversation 1
ESL 580, Conversation 2
ESL 490, Advanced 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 COMPLETION

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 393, Introduction to ESL Family Literacy
ESL 399, ESL Literacy
Choose 1:
ESL 401, ESL/Family Literacy, Beginning 1
ESL 410, Beginning ESL 1

## COMMUNICATION ESL INTRO B CERTIFICATE OF COMPLETION

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 393, Introduction to ESL Family Literacy
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 COMPLETION

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, ESL Intermediate 1
ESL 711, Academic ESL Intermediate 1

## Choose 1:

ESL 120, ESL Civics
ESL 140, VESL Childcare Educators
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 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
ESL 480, Intermediate ESL 3
Choose 1:
ESL 120, ESL Civics
ESL 140, VESL Childcare Educators
ESL 395, ESL Writing B
ESL 398, Community Learning Center
ESL 490, Advanced 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 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:

ABE 009

## 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

## 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.

## 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.

## Core 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.

## Core 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-exitinstructional format thatallows 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.

## Core 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.

## Core 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-exitinstructional formatemphasizesfunctional 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.

## Core Courses:

Vocational Business 574, Computer Basics: Hardware and Software
Vocational Business 450, Hardware and Software A+ Preparation, Review, Practice
$\overline{\text { Vocational Business 576, Computer Basics: Systems and Networking }}$ Essentials

## Elective:

Vocational Business 400, Employability Skills

## ADULT BASIC EDUCATION (ABE)

Adult Basic Education 009
Adult Basic Education - Reading, Writing and Math
Credit(s): 5
Class Hours: 288
Instructs students in basic skills, including reading, writing, spelling and mathematics. Prepares students to take High School Subjects courses, job training, or college credit classes. Recommended for Intermediate ESL 1 students or above and/or placement by counselor assessment. Open Entry/Open Exit.
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 twopart 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 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: 60
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: 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.

## CITIZENSHIP (CTZN)

## Citizenship 020

Citizenship
Credit(s): 0
Class Hours: 72
Provides basic knowledge of local, state, and federal government in preparation for the United States citizenship examination including language usage within the context of history and government. Recommended for students in Beginning ESL 2 or above. 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.

## ENGLISH AS A SECOND LANGUAGE (ESL)

English As a Second Language 120
ESL Civics
Credit(s): 0
Class Hours: 144
Provides development in listening, speak-
ing, 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 140

VESL: Child Care Educators
Credit(s): 0
Class Hours: 36
This beginning academic VESL course supports child care educators enrolled in Human Development courses. Emphasizes listening, speaking, reading, writing, grammar and study skills using child development content. Open Entry/ Open Exit.

English As a Second Language 392
Writing \& Computers: Developing a School

## Publication

Credit(s): 0
Class Hours: 72
Provides instruction for students in developing a student publication. Computers and the Internet will be used to develop and research for the 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 393
Introduction to ESL Family Literacy
Credit(s): 0
Class Hours: 18
Utilizes various language-based activities to enhance family language learning and introduces the four components of family literacy: basic adult literacy skills, parent education, emergent literacy needs of children, and adults and children reading together. 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 an overview of the writing process including activities to improve composition skills. This course is designed for students who test at the ESL Beginning 3 and Intermediate 1 levels on the ESL Placement or the ESL pre- and post-tests. Open Entry/Open Exit.
English As a Second Language 395
ESL Writing $B$
Credit(s): 0
Class Hours: 72
Introduces the writing process to improve composition skills. This course is designed for students who test at the ESL Intermediate 2 and Intermediate 3 levels on the ESL Placement or the ESL preand post-tests. Open Entry/Open Exit.

English As a Second Language 398
ESL Community Learning Center
Credit(s): 0
Class Hours: 72
Provides learners of all English levels the opportunity to improve their English skills, as well as learn about 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 conversation, 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 languagebased 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. 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. Open Entry/Open Exit.

## English As a Second Language 410 Beginning ESL 1 <br> Credit(s): 0 <br> 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 Grammar Review
Credit(s): 0
Class Hours: 72
Provides intensive review and practice of basic grammatical structures. Concentrates on verb tenses, modals, conditional, passive, reported speech, gerunds and infinitives, articles, relative clauses, adjectives and adverbs, word order, and prepositions. Recommended completion of Intermediate ESL 3 or equivalent. Open Entry/Open Exit.
English As a Second Language 510
VESL: English for Work 1
Credit(s): 0
Class Hours: 216
Prepares limited English-speaking students for employment. Focuses on vocabulary skills and vocational readings with emphasis on oral 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 limited English-speaking students for employment. Focuses on vocabulary skills and vocational readings with emphasis on oral 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 encounters 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
For students interested in obtaining a practical degree of fluency in spoken English. This course focuses on the further analysis of conversational strategies including verbal and nonverbal communication within large and small groups. 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 703
Academic ESL Beginning 3
Credit(s): 0
Class Hours: 216
Third of the six academic ESL courses with an emphasis on basic grammatical structures of English and developmental reading skills. Extensive practice in sentence level writing utilizing the grammatical structures introduced. This course provides multi-skills practice in a contextualized format that integrates all four language skills in preparation for academic success. Open Entry/Open Exit.

English As a Second Language 711
Academic ESL Intermediate 1
Credit(s): 0
Class Hours: 216
Fourth of the six academic ESL courses with an emphasis on the grammatical structures of English and developmental reading skills. Practice in short paragraph writing utilizing the structures introduced. This course provides multi-skills practice in a contextualized format that integrates listening, speaking, reading, and writing in preparation for academic success. 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 712
Academic ESL Intermediate 2
Credit(s): 0
Class Hours: 216
Fifth of the six academic ESL courses with an emphasis on more complex grammatical structures of English and developmental reading skills. Practice with complex sentences and paragraph writing utilizing the structures introduced. This course provides multi-skills practice in a contextualized format that integrates listening, speaking, reading, and writing in preparation for academic success. Five High School elective credits may be granted if student passes the posttest for this class with $75 \%$ or better. Open Entry/Open Exit.
English As a Second Language 713
Academic ESL Intermediate 3
Credit(s): 0
Class Hours: 216
Sixth of the six academic ESL courses with an emphasis on more complex grammatical structures of English and developmental reading skills. Refine basic sentence and paragraph writing which utilize the grammatical structures introduced. This course provides multiskills practice in a contextualized format that integrates listening, speaking, reading, and writing skills in preparation for academic success. Five High School elective credits may be granted if student passes the ESL posttest for this class with $70 \%$ or better. Open Entry/Open Exit.

## 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): 5
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. Open Entry/Open Exit.

## HIGH SCHOOL SUBJECTS (HSS)

High School Subjects 010
Learning Skills \& Strategies
Credit(s): 5
Class Hours: 72
Provides individualized instruction to improve learning strategies and basic reading, writing, and mathematics skills. Prepares adults who have verified learning disabilities to successfully meet educational and vocational goals. Recommended for students who meet eligibility requirements for D.S.P.S. services.

## 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 twopart 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): 0
Class Hours: Lecture total.
Supervised one-to-one 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 in course(s)for which tutoring is requested. Exam review sessions offered in some areas. 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 229
Skills for Success
Credit(s): 5
Class Hours: 72
Assists students in developing skills that promote academic success. Students will learn study and organizational skills, goal setting, critical thinking skills, and writ-
ten/oral communication. Compensatory strategies and technology will be emphasized.
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.

## HS SUBJECTS - ARTS (HSART)

HS Subjects - Arts 500
Introduction to Theatre Arts
Credit(s): 5
Class Hours: 72
Offers students opportunities to examine human experiences through imagined roles, expand the capacity for creative thinking and learn the history and terminologies of an important form of art. Open Entry/Open Exit.

## 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 an advanced writing assignment that requires in-depth research culminating in the production of a minimum 15-page research term paper, including an outline and bibliography. (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 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: 72
Provides students with a course of study that focuses on the California State 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: 72
Provides students with a course of study that focuses on the California State 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 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
Offers an intermediate course exposing students to representative works in American literature from the Colonial period to the rise of realism, with opportunities to develop writing skills for editorials, short stories, and essays, supported by lessons in English grammar and sentence structure.

## HS Subjects - English 706

English 6
Credit(s): 5
Class Hours: 72
Offers an intermediate course exposing students to representative works in American literature from the Modern American fiction period to contemporary American literature with opportunities to develop writing skills for essays, research papers, biographies and autobiographies, supported by lessons in English grammar and sentence structure.

## HS Subjects - English 707

English 7
Credit(s): 5
Class Hours: 72
Offers an advanced course exposing students to representative works in English literature from the Anglo-Saxon period to the Restoration, with opportunities to develop writing skills for reports and essays, supported by lessons in English grammar and sentence structure.
HS Subjects - English 708
English 8
Credit(s): 5
Class Hours: 72
Offers an advanced course exposing students to representative works in English literature from the Romantic period to the present, with opportunities to develop writing skills for reports and essays, supported by lessons in English grammar and sentence structure.

## 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 150
Algebra I Support
Credit(s): 5
Class Hours: 72
Provides focused instruciton for students needing remediation and support in Prealgebra and in Algebra.
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 PreAlgebra 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 coordinate systems, graphing of linear equations, simultaneous equations with fractions, ratios, proportions, factoring, formulas, inequalities and square roots. Recommended for students who have completed Algebra 1A or equivalent. 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 everyday mathematic problems of the consumer.

## 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 househould 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 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 - Other 772
Positive Life Attitudes
Credit(s): 5
Class Hours: 72
Provides students with classroom discussion and information in a variety of life skills relating to their personal, career, and educational development. Open Entry/Open Exit.

## 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 <br> 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 <br> 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
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, and economic contexts.

## HS SUBJECTS- NATURAL SCIENCES (HSSCI)

HS Subjects- Natural Sciences 170
Biology 1A
Credit(s): 5
Class Hours: 72
Provides instruction in energy and the chemistry of life, cell structure and specialization, and genetics and evolution. Students will also participate in virtual dissections of a worm and a crayfish. Open Entry/Open Exit.
HS Subjects- Natural Sciences 171

## Biology 1B

Credit(s): 5
Class Hours: 72
Provides instruction in ecology, plant anatomy, diversity of life, the animal kingdom. Students will also participate in the virtual dissection of a frog and a pig. Open Entry/Open Exit.

HS Subjects- Natural Sciences 180

## Introduction to Biology

Credit(s): 5
Class Hours: 72
This is a first semester course in biology that introduces the process of scientific investigation and the formation and development of a cell. Class activities emphasize direct instruction, lab investigations, and individual and group assignments.

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
Surveys the principles and concepts of physical science, including matter, energy, and their relationship. Examines measurement and motion, classification of matter, light, sound, and energy. Open Entry/Open Exit.
HS Subjects- Natural Sciences 191
Physical Science 2
Credit(s): 5
Class Hours: 72
Surveys the principles and concepts of physical science, including matter, energy, and their relationship. Examines measurement and motion, classification of matter and light, sound, electricity and energy sources. 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, cardio-vascular, lymphatic, respiratory, digestive, urinary, and reproductive. Diverse learning activities are used in the classroom to develop a variety of skills.

## HOME ECONOMICS (HOMEC)

## Home Economics 520 <br> HSS Consumer Education

Credit(s): 0.5-7.5
Class Hours: 24
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.

## 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 558

Early Childhood Care and Development For Family Child Care Providers
Credit(s): 0
Class Hours: 84
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 potential family child care providers with health information and certification required for 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 testtaking 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: 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: 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: 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 \& Basic Windows 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): 5
Class Hours: 72
Provides introductory instruction on industry-standard computer applications used for word processing, spreadsheets, databases, presentations, Internet access, and graphics: for example, MS word, MS Excel, MS PowerPoint, Internet Explorer, Keyboarding, Publisher, Adobe Photoshop, Adobe Illustrator, Flash, FileMaker Pro and others. 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 <br> Introduction to Keyboarding II <br> Credit(s): 0 <br> 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 sklls 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): 5
Class Hours: 72
Provides students with basic training in customer service techniques, appropriate telephone etiquette, self-management, interpersonal relations, and attitude and initiative needed to succeed in the workplace. Beginning ESL 3 level or above recommended. 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 concept, use of databse tools, and practice in creating queries, tables, 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): 5
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. Open Entry/ Open Exit.
Vocational - Business 258
Navigating the Internet
Credit(s): 0
Class Hours: 60
Introduces students to the Internet.
Topics include types of internet connections, e-mail, research, and data retrieval techniques. Open Entry/Open Exit.

Vocational - Business 259
Orientation to Computers
Credit(s): 5
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 tools for using computer applications. 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 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): 5
Class Hours: 72
Provides students with training for identifying career options, creating a career path, self-assessment, goal setting, skill assessment, exploring various techniques for conducting a job search, writing a resume and cover letter, interviewing techniques, and job-retention strategies. Course content includes demonstration, instructor-led exercises, and hands-on practice. Open Entry/Open Exit.

Vocational - Business 450
Hardware \& Software A+ Preparation,

## Review, Practice

Credit(s): 5
Class Hours: 72
Course provides instruction in computer hardware and software preparation, review, and practice for taking the $\mathrm{A}+$ 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. 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): 5
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 XP, Windows 2003, Windows 2000 Professional, Red Hat Linux, and Novell Netware operating systems. This class is for students with knowledge of computer repair and troubleshooting. Open Entry/Open Exit.
Vocational - Business 590
Introduction to How to Start a Small Business Credit(s): 5
Class Hours: 72
Provides an introductory series of workshops focusing on specialized topics related to the needs of individuals desiring to start a small business. Open Entry/ Open Exit.

Vocational - Business 668
Introduction to Automotive Vehicle
Maintenance
Credit(s): 5
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. Open Entry/Open Exit.

## VOCATIONAL - HEALTH (VHLTH)

Vocational - Health 895
Paraprofessional Mental Health Worker I

## Credit(s): 5

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 counsel-
ing. 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 

## FACULTY EDUCATIONAL ADMINISTRATORS MANAGERS

## SAC FACULTY, EDUCATIONAL ADMINISTRATORS, MANAGERS

## Abbey, Troy (2001)

Professor, Kinesiology
B.A., California State University, Long Beach
M.A., Azusa Pacific University

Andrade, Philippe (2007)
Associate Professor, Political Science
B.A., California State University, Long Beach

Ph.D., Claremont Graduate University
Anthony, Mary Anne (1976)
Professor, Mathematics
B.A., University of California, San Diego
M.S., California State University, San Diego
M.S., Pepperdine University

Aguilar Beltran, Maria (2009)
Coordinator, Associate Professor, Disabled Student Programs $\mathcal{E}$ Services
B.A. Cal Poly Pomona,

MSW, California State University, Long Beach
L.D. Certificate, California State University, Sacramento

Argo, Rose (1996)
Professor, Fire Technology
B.A., M.A., California State University, Long Beach

Bales, Terry W. (1971)
Professor, TV/Video Communications, Department Chair
B.A., M.A., University of Southern California

Bass, Stacey (2006)
Associate Professor, Nursing
B.S.N., Loma Linda University
M.S.N., California State University, Long Beach

Bassett, Dana (2001)
Professor, English
B.A., M.A., California State University, Fullerton

Bautista, Steve (2001)
Counseling
B.A., M.S., California State University, Fullerton

Bennett, Gary (1998)

## Professor, English

B.A., M.A., California State University, Fullerton

Ph.D., University of Nevada at Las Vegas
Beyersdorf, Matthew A. (2006)
Associate Professor, English
B.A., M.A., Chapman University
J.D., Chapman University School of Law

Birnbaum, Beverly (1974)
Coordinator, Testing Center
B.A., University of California, Berkeley
M.S., California State University, Long Beach
M.B.A., University of California, Irvine

Blake, Sherri (2011)
Counseling
A.A., Santa Ana College
B.S., California State University, Fullerton
M.A., California State University, Dominguez Hills

Bowers, Cherie (2005)
Associate Professor, Mathematics
A.A., Cypress College
B.A., California State University, Long Beach
M.A., University of Southern California

Brandon, Kelly (1989)
Professor, English
B.A., University of California, Los Angeles
M.A., University of California, Santa Barbara

Bridges, Avie (1998)
Dean, Kinesiology
B.S., Judson College
M.A., Tennessee Tech University

Breig, David B. (2002)
Professor, Kinesiology
A.A. Cerritos College
B.A., Seattle Pacific University
C.C.T.C., California state University, Dominguez Hills
M.S., California State University, Fullerton

Brown, Angela T. (2001)
Counseling
A.A., Citrus College
B.S., University of California, Riverside
M.A., California State University, San Bernardino

Brown, Laurence S. (1996)
Professor, Communication Studies
A.A., Long Beach City College
B.A., M.A., California State University, Long Beach

Bryant, Micki (2006)
Dean, Counseling
B.A., Stanford University
M.B.A., University of California, Los Angeles

Ph.D., California School of Professional Psychology (Alliant University)
Budarz, Timo (2005)
Associate Professor, Physics
B.S., Ph.D, Purdue University

Cannon, Chris (2011)
Assistant Professor, Theatre Arts
B.A. Southeastern University, M.I.F.A. University of Virginia

Canzona, Paula (1998)
Counseling
B.S., University of Redlands
M.A., California State University, Dominguez Hills

Carrera, Cher (2002)
Interim Dean, Science, Mathematics, and Health Sciences
B.A., M.A., California State University, Fullerton
M.A., Claremont Graduate University

Ed.D., Argosy University, Costa Mesa
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)
Assistant Professor, Psychology
B.A., California State University, Bakersfield
M.A., California State University, Fullerton

Coffman, Jodi (2000)
Professor, Kinesiology
B.A., University of California, Santa Barbara
M.A., California State University, San Diego
M.Ed., University of San Diego

Ed.D., University of San Diego

Coliflores, Rowena (2007)
Associate Professor, Nursing
B.S.N., M.S.N., California State University, Fullerton

## Collins, Michael T. (2012)

Vice President, Administrative Services, Santa Ana College
B.S., Syracuse University, New York

MPH, California State University, Long Beach
Ed.D., University of Southern California
Collins, Monica (2006)
Coordinator, American Sign Language Program, Deaf $\mathcal{E}$ 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

Conner, M. Patricia (1992)
Tutorial Specialist/Learning Center
B.A., University of Minnesota
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)
Associate Professor, Earth Science/Geology
B.S., University of Maryland, College Park
M.S., University of Southern California

Crabb, Patrick (1976)
Professor, Art
B.F.A., University of Massachusetts
M.F.A., University of California, Santa Barbara

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
Dennis, Karen (1984)
English as a Second Language Coordinator
B.A., M.A., University of Nebraska

TESOL Certificate, University of California, Irvine
Dethlefsen, Elaine (1991)
Professor, EMT
A.A., Orange Coast College
B.S.A., University of Phoenix

Dooley, Ben A. (2011)
Dean, Business Division
B.S., M.B.A., California State University, Los Angeles
M.P.W., Ed.D. University of Southern California

Doolittle, Glenn A. Jr. (1996)
Professor, Global Business and Enterpreneurship
B.A., University of Texas, J.D., University of Georgia

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

Eastmond, T. Stephen (1973)
Professor, Planetarium/Astronomy
B.S., University of Southern California
M.A., Ph.D., University of California, Los Angeles

Emley, Catherine (1998)
Professor, Medical Assisting
A.A., B.S.N., Mount St. Mary's College, Los Angeles
M.N., Psychiatric Mental Health Nursing

University of California, Los Angeles
Ettinger, Becky (2006)
Associate Professor, Nursing
A.D.N., Cerritos College
B.S.N., University of Phoenix
M.S.N., California State University, San Bernardino

Everett, Mike (2002)
Professor, Mathematics
B.A., B.S., M.A., California State University, Fullerton

Finch, John (2006)
Public Administration
B.A., University of Redlands
M.A., California State University, Long Beach

Fish, Zachary (2004)
Associate Professor, Philosophy
B.A., Philosophy, University of New Orleans
M.A., Ph.D., University of California, Riverside

Fondren, Stephanie R. (1996)
Professor, Communication Studies
A.A., Long Beach City College
B.A., M.A., California State University, Long Beach

Freeman, Suzanne (1993)
Professor, Fire Technology
B.A., California State University, Long Beach

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)
Librarian, Professor
B.A., California State University, Long Beach
M.L.S., University of California, Los Angeles

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

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)
Associate Professor, Criminal Justice
Ph.D. Candidate, Psychology, North Central University
Graduate, FBI National Academy
Gonzaga-Siguenza, Patricia (1996)
Counseling
B.A., M.S., California State University, Fullerton

Grant, Madeline (2001)
Global Business and Enterpreneurship
B.A., University of San Diego
M.B.A., Claremont Graduate School

Guerrero-Phlaum, Martha (2005)
Associate Professor, Spanish
B.A., M.A., Ph.D., University of California, Irvine

Guzmán, Kristen (2006)
Associate Professor, History/Ethnic Studies
B.A., University of California, Santa Cruz

Ph.D., University of California, Los Angeles

## Haglund, Becky (1984)

Professor, Nursing
B.S.N., California State University, Los Angeles
M.N., University of California, Los Angeles

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
M.S., University of California, Santa Barbara

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
M.A., United States International University
M.B.A., Heriot-Watt University

Higgins, Mark (1989)
Professor, English
B.S., St. Vincent College
M.A., University of Southern California

Hirsch, Rosemarie (1997)
Professor, Nursing
A.D.N., Golden West College
B.S.N., California State University, Fullerton
M.N., University of California, Los Angeles

## Hoffman, Bart (2005)

Dean, Human Services and Technology, Career Education and Workforce Development
B.S., Business Administration, California State University, Long Beach
MBA, University of Phoenix
Hogue, Tom (1979)
Professor, Diesel
A.S., Los Angeles Trade Technical College
B.V.E., California State University, Long Beach

Holder, Vera (1988)
Professor, Communication Studies
B.A., California State University, Long Beach
M.A., California State University, Northridge

Horgan, Linda (2007)
Associate Professor, Nursing
A.D.N. Cypress College
B.S.N., Loma Linda University,
M.S.N., California State University, Long Beach

PMHNP, California State University, Long Beach
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

Huynh, KC (2006)
Associate Professor, Pharmacy Technology
Pharm.D., University of Southern California

## Hyman, Deborah (2009)

Assistant Professor, Occupational Therapy
BSC Honors in Occupational Therapy, University of Witwatersraud
WTOF approved University
Issa, Karim (1972)
Professor, French
B.A., University of California, Riverside
M.A., California State University, Fullerton

Jaffray, Shelly (1991)
Dean, Humanitites/Social Science
B.A., M.A., California State University, Fullerton

Janus, Louise (2011)
Learning Disability Specialist, Assistant Professor Learning Disabilities
B.A., University of San Diego
M.Ed., Argosy University
L.D. Certificate, California State University, Sacramento

Jaros, Bonita N. (1980)
Professor, English/ESL
B.A., Hunter College
M.A., Cornell University
M.A., California State University, Fullerton,

Certificate in the Teaching of Composition,
University of California, Irvine
M.A., Ph.D., Claremont Graduate University

## Jenkins, Crystal (2004)

Professor, Chemistry
B.A., M.S., University of California, San Diego
M.S. California State University, Long Beach

Jenkins, Robert (1996)
ESL
B.S., M.S, TESOL, California State University, Fullerton

Jin, Jungwon (2011)
Assistant Professor, Music
B.M. Juilliard School, M.M., D.M.A. University of Southern California

Jones, Elliott (2000)
Professor, Music
B.A., M.M., Arizona State University
D.M.A., University of Miami

Jones, Geoff (2004)
Associate Professor, Kinesiology
B.A., Chapman University
M.A., Azusa Pacific University

Kalko, John M. (1985)
Professor, Physical Science, Physics and Astronomy
B.A., M.A., California State University, Long Beach

Kanzler, Dietrich (1980)
Professor, Manufacturing Technology
A.S., Santa Ana College
B.V.E., California State University, Long Beach

## Kashi, Majid (1994)

Professor, Mathematics
B.S., Newcastle Polytechnic, United Kingdom
M.A., California State University, Fullerton

Keith, Katharine (1991)
Professor, ESL
B.A., Connecticut College
M.A., University of Wisconsin, Madison

Kehlenbach, E. Brian (1990)
Professor, Music, Department Chair
B.S., M.M., University of Connecticut
D.M.A., University of Southern California

Kelcher, Michael (2007)
Associate Professor, Chemistry
B.S., M.S., University of California, Riverside

Kennedy, James (2007)
Interim Vice President, School of Continuing Education, Santa Ana College
B.A., Sonoma State University
M.B.A., University of Phoenix

Kikawa, Eve (1982)
Professor, Dance, Department Chair
B.A., M.A., University of California, Los Angeles

Kim, Henry (2001)
Associate Professor, ESL
B.A. University of Hawaii at Manoa
M.A., California State University, Long Beach

Kosko, Christine (2011)
Associate Dean, Instruction E Student Services,
Santa Ana College/School of Continuing Eduction
B.S. University of Phoenix
M.A., National University

Kossler, Wenona (2000)
Professor, Reading
B.A., M.S., TESOL, California State University, Fullerton

Kushida, Cherylee (1996)
Coordinator, Distance Education
B.S., University of California, Irvine
M.B.A., Claremont Graduate School

Le, Phi Loan (2006)
Training Director, Psychological Services
Psy.D. Nova Southwestern University
Leeds, Kelvin (1997)
Professor, Mathematics
B.A., Southern California College
M.A., California State University, Fullerton

Leon, Christine (2013)
Associate Dean, EOPS/CARE
B.A., University of California, Los Angeles
M.S.W., University of California, Los Angeles

Lewis, Michael L. (1996)
Professor, ESL
B.A., California State University, Fullerton
M.A., United States International University

Liang, Mark (2006)
Associate Dean, Admission and Records
B.A., California State University, Fullerton
J.D., Trinity International University, School of Law

## Lipiz, Nilo (1996)

Dean, Instruction $\mathcal{E}$ Student Services, Santa Ana College/School of Continuing Education
B.A., California State University, Fullerton
M.A., TESOL, Bilingual Education,

California State University, Los Angeles
M.A., Education Administration,

California State University, Los Angeles
Little, Charles (1986)
Professor, Communications and Media Studies, Department Chair
B.A., Azusa Pacific University
M.A., University of La Verne

Lockwood, Lance (2005)
Professor, Communication Studies, Department Chair
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)
Associate Professor, Biology
B.S., University of California, Davis
M.S., University of Chicago

Ph.D., Indiana University
Lopez-Jaurequi, Leticia (1994)
Professor, ESL
B.A., Yale University
M.A., TESOL Certificate, California State University, Fullerton

Lundquist, Sara (1982)
Vice-President, Student Services, Santa Ana College
B.A., University of Pennsylvania
M.S., University of LaVerne

Ph.D., Claremont Graduate University
Luppani, Flo (2004)
Associate Professor, Kinesiology
B.A., Chapman University
M.A., Humboldt State University

MacBride-Hart, Christy (1983)
Professor, Mathematics
B.A., University of California, Los Angeles
M.A., California State University, Fullerton

Macdonald, Juli (1996)
Professor, Kinesiology
B.S., M.S., California State University, Fullerton

Madrigal, Romelia (2002)
Public Administration
B.A., California State University, San Diego

Educational Counseling
M.A., National University

Mahany, Donald (2008)
Assistant Dean, Fire Technology
B.A., University of Redlands
M.S., California State University, Long Beach

Mansfield, Patricia (1991)
Professor, Biology
B.S., Howard University

Ph.D., University of California, Irvine
Postdoctorate, State University of New York at Stony Brook,
University of California, Irvine

## Manson, Robert (2006)

Associate Dean, Financial Aid
M.B.A., Chapman University

Manzano, Richard (1990)
Professor, Paralegal
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)

Assistant Professor, Art, Department Co-Chair
B.A. California State University, Fullerton
M.F.A. Claremont Graduate University

Martin, Ronald D. (1971)
Professor, History
A.B., M.A., California State University, San Diego

Ph.D., University of California, Santa Barbara
Martinez, Donato (1996)
Professor, English
B.A., California State University, Pomona
M.A., California State University, Fullerton

Martinez, Erlinda J. (2005)
President, Santa Ana College
B.A., Sociology, University of California, Riverside
M.S. Counselor Education, California State University, Los Angeles

Ed.D. Higher Education, University of Southern California
Mathis, Jane (2005)
Counseling
B.A. University of California, Irvine
M.S. California State University, Long Beach

McClure, Caren F. (1991)
Professor, Mathematics
B.A., California State University, Northridge
M.A., California State University, Fullerton

## McKowan-Bourguignon, Lisa (2011)

Assistant Professor, Mathematics
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
Meier, Krystal (1997)
Professor, Mathematics
B.A., California State University, Long Beach
M.A., Azusa Pacific
M.A., California State University, Fullerton

Miller, Rebecca (1990)
Associate Dean, Health Sciences
B.S.N., California State University, Long Beach
M.S.N., California State University, Dominguez Hills

Miller, Renee (2006)
Coordinator, Associate Professor ABI/Communication Disabilities
B.A. Speech and Hearing, Cleveland State University
M.A. Speech Pathology, Kent State University

Mitchell, Earl (1991)
Professor, Business Administration
B.S., California State University, Los Angeles
M.B.A., University of Illinois

Ed.D., University of Laverne
Mitzner, Rita (2006)
Associate Professor, English
B.A., M.A., Creative Writing
M.F.A., California State University, Long Beach

Mixer, Dale (2004)
Associate 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

Montiel-Childress, Dena (1997)
Professor, Business Applications EV Technology
B.A., California State University, Fullerton
M.B.A., National University
M.A., United States International University

Moreno, George (2007)
Associate Professor, Welding
A.A., Cerritos College
B.S., California State University, Long Beach

Morgan-Beazell, Gwen (1986)
Professor, Human Development
B.S., Indiana University
B.A., California State University, Northridge
M.A., California State University, Long Beach

Morris, A. Kimo (2011)
Assistant Professor, Biology
B.A., University of California, Santa Barbara
M.Sc., Oregon State University

Ph.D., University of California, Los Angeles

## Morris, Marilou (1973)

Professor, Communication Studies
B.A., University of California, Riverside
M.A., Linguistics, California State University, Fullerton
M.A., Speech Communication, California State University, Fullerton

Morris-Pfyl, Sandra (1986)
Career Specialist, Workability III/ Career /Job Resource Center, Special Services
B.A., University of California, Los Angeles
M.A., Whittier College

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
Nashua, Loy (2007)
Associate Dean, Student Development
B.A., Whittier College
M.S., Claremont Graduate University
J.D., La Verne College of Law

Nguyen, Madeleine (1996)
Counseling
B.A., California State University, Fullerton
M.A., California State University, Dominguez Hills

Nguyen, Michael T. (2001)
Professor, Business Applications $\mathcal{E}$ Technology
B.S., M.A., California State University, Los Angeles

Nguyen, Van Thi (1995)
Counseling
B.A., M.S., California State University, Long Beach

Nguyen, William (2003)
Associate Professor, Chemistry
A.S., Santa Ana College
B.S., Ph.D., University of California, Los Angeles

Nichols, Bruce (1990)
Professor, Computer Science
B.A., Whittier College
M.S., California State University, Fullerton

Nick, JoAnn (1996)
Professor, Nursing
B.S.N., South Dakota State University
M.S.N., California State University, Long Beach

Nutter, Kim (1991)
Professor, Kinesiology
B.S., California Polytechnic University, Pomona
M.A., California State University, Dominguez Hills

Oertel, Patricia (2008)
Associate 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

## Parolise, Michelle R. (2000)

Professor, Occupational Therapy Assistant Program
B.S., Colorado State University
M.B.A., California State University, Long Beach

Patterson, Kathleen (1996)
Professor, English
B.A., M.A., California State University, Fullerton

Paunovic, Mila (2006)
Associate Professor, Nursing
B.S.N., Loma Linda University
M.S.N., University of Phoenix

Pedroza, Jeffrey (2001)
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.S., University of California, Berkeley

Pham, Tuyet (1985)
Counseling
B.A., M.S., California State University, Fullerton
J.D., Western State University

Polanco-Zook, Rochelle (2001)
Counseling
A.A., Rio Hondo College
B.A., M.S.W., California State University, Long Beach

Porter, Monica S. (2005)
Coordinator, Speech Language Pathology Assistant Program (SLPA)
B.A., M.A., San Diego State University

Pugh, James (1979)
Professor, Human Development
B.S., Central State University
M.A., California State University, Long Beach

Ph.D., University of Miami
Quintana, Refugio (1990)
Counseling
A.A., Santa Ana College
M.A., Goddard College, Vermont

Ramirez, Daniel (1977)
Counseling
A.A., Santa Ana College
B.S., California State University, Long Beach
M.S., California State University, Fullerton

Ramirez, Marco A. (1994)
Coordinator, Academic Talent Search
A.A., Santa Ana College
B.A., University of California, Santa Barbara
M.S., California State University, San Diego

Ramshaw, Charles (2001)
Professor, English
B.A., California State University, Fullerton
M.A., Chapman University

Rehm, Alice (1994)
Professor, Nursing
B.S.N., M.S.N., California State University, Los Angeles

Robertson, Mario C.S. (2006)
Associate Professor, Anthropology
B.A., M.A., California State University, Fullerton

Robinson, Kristen (2011)
Assistant Professor, Paralegal
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

Rogers, Neal L. (1973)
Professor, Mathematics
B.A., M.S., Ed.D., University of Southern California

Rose, Linda (2011)
Vice President, Academic Affairs, Santa Ana College
A.A. West Los Angles College
B.A., M.A., California State University, Dominguez Hills

Ed.D., University of California, Los Angeles
Ross, Kris (2006)
Associate Professor, Fire Technology
B.A., M.A., California State University, Long Beach

Ross Jr., John (2009)
Assistant Professor, Economics
B.S., California State University, Fullerton

Russo, Stacy (2011)
Assistant Professor, Librarian
B.A. University of California, Berkeley
M.L.S. San Jose State University

Sadler, Dennis (1984)
Counseling
A.A., Fullerton College
B.V.E., Career Certificate
M.S., California State University, Long Beach

Salgado, Susana O. (2007)
Psychological Disabilities Coordinator/Psychologist
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

## Schultz, Randal (1996)

Professor, TV/Video Communications
A.B., M.S., University of Southern California

Scoggin, Sally (2001)
Professor, ESL
B.A., Whittier College
M.A., United States International University

Serrano, Maximiliano (2008)
Assistant Professor, Automotive Technology
A.A. Santa Ana College

Shaffer, Cathie (2006)
Counseling/MESA Program Director
B.A., Psychology, University of California, Irvine
M.S. Counseling \& Guidance, Calfornia State University, Fullerton

## Shain, Sheila (2006)

Associate Professor, Business Administration
B.S., Northern Arizona University
M.S., University of Nevada

Certified Public Accountant (Inactive), State of California
Sherod, Susan (2000)
Professor, Engineering
B.S., University of Illinois at Champaign/Urbana
M.A., California State University, Los Angeles

Registered Architect, CA., 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)
Assistant Professor, Global Bxusiness \& Entrepreneurship
B.A., The George Washington University
M.IM, Thunderbird American Graduate School of International

Management
Siddons, Alan (1980)
Professor, Kinesiology
B.A., M.A., California State University, Fullerton

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

Simmons, Kathleen M. (1997)
Professor, EMLS
B.A., M.A., New Jersey City University

Singh, Nirbhai (Nick) (1999)
Professor, Manufacturing Technology
B.S., University of Punjab, India

Sneddon, Donald Earl (1978)
Professor, Kinesiology
B.S., M.S., California State University, Fullerton

Sneddon, Marta (1991)
Fire Technology
B.A., California State University, Long Beach
M.A., Azusa Pacific University

Solheid, Christa (2000)
Professor, Mathematics
A.A., Fullerton College
B.A., M.A., California State University, Fullerton

Ed.D., Argosy University, Orange County
Sos, Brian (2011)
Assistant Professor, Kinesiology/DSPS
B.S., M.A., San Diego State University

Ph.D., Florida State University
Soriano, Irene (1994)
Professor, Art History/Ethnic Studies, Department Co-Chair
B.A., University of Texas at El Paso
M.A., Boston College, Chestnut Hill, MA
M.A., Ph.D., Boston University, Boston, MA

Sosta, Rachel (2011)
Assistant Professor, English
B.A., Occidental College
M.A., California State University, Fullerton

Sotelo, Sergio R. (2000)
Dean of Instruction $\mathcal{E}$ Student Services,
Santa Ana College/School of Continuing Education
A.A., Santa Ana College
B.A., California State University, Fullerton
M.S., San Diego State University

Ph.D., University of California, Los Angeles
Steckler, Mary (2002)
Professor, Nursing
A.D.N., Saddleback College
B.S.N., M.S.N., California State University, Dominguez Hills

Stephens, Mary B. (1996)
Learning Disabilities/Special Services
B.A., College of St. Catherine
M.A., St. Thomas University

Stucken, Robert (2006)
Associate Professor, Nursing
A.D.N., Golden West College
B.A., Calfornia State University, Long Beach
M.S.N., University of Phoenix.

Sweeney, George (2011)
Assistant Professor, Math Center Coordinator
B.A., University of California, Los Angeles
M.S., California State Polytechnic University, Pomona

Ph.D. San Diego State University
Takahashi, Craig (2006)
Associate Professor, Engineering
B.S., M.S., Ph.D., University of California, Irvine

Takahashi, Kathleen (2005)
Professor, Biology
B.S., University of California, Irvine
M.S., California State University, Long Beach

Ph.D., University of California, Los Angeles
Tanakeyowma, Lilia (1998)
Dean, Student Affairs
B.A., University of California, Irvine
M.S., California State University, Fullerton

Ed.D., University of California, Irvine
Tivenan, Valinda (1986)
Professor, Theatre Arts, Department Chair
A.A., Santa Ana College
B.A., California State University, Long Beach
M.A., California State University, Long Beach

Tran, Melissa L. (1999)
Professor, ESL
B.A., Wellesley College
M.A., Chapman University

Trone, Jinhee (1999)
Professor, Business Administration
B.S., California State University, Los Angeles Certified Public Accountant, State of California
Valdez, Susanne M. (2005)
Associate Professor, Human Development
A.A., Fullerton College
B.S., B.A., M.A., California State University, Fullerton

Vargas, Martha (1997)
Counseling-Transfer Center
B.A., California State Polytechnic University, Pomona
M.S., California State University, Fullerton

Vercelli, Julia (1989)
Counseling
B.A., California State University, Fullerton
M.A., University of San Francisco

Veyna, Angelina F. (1993)
Professor, History/Ethnic Studies
B.A., University of California, Irvine
M.A., University of California, Los Angeles

Vu, John (2000)

## Counseling

B.A., California State University, Fullerton
M.S., National University

Vu, Dahlia (2006)
Associate Professor, Mathematics
B.S., M.A., University of California, Riverside

Wann, Terri (1985)
Professor, Fire Technology
B.S., M.S., California State University, Fullerton

Waterman, Patricia (2001)
Professor, Art
B.F.A., Art Center College of Design

Wilkes, Douglas E. (1997)
Professor, Automotive Technology
A.A., Saddleback College
B.S., California State University, Long Beach

Wood, Sandra J. (1996)
Professor, Anthropology
A.A., Orange Coast College
B.A., M.A., California State University, Fullerton
A.B.D., University of California, San Francisco and Berkeley

Wright, George P. (1974)
Professor, Criminal Justice
B.S., M.S., California State University, Los Angeles

Yang, Nell (2000)
Professor, Librarian, Department Co-Chair
D.A., Simmons College
B.A., National Chengchi University
M.L.S., Queens College, New York

Yamada, Ted K. (1993)
Professor, Chemistry
B.S., Ph.D., University of Southern California

Zarske, John (1996)
Professor, Mathematics
A.A., Golden West College
B.A., California State University, Long Beach
M.S., University of Southern California


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SAC is a fresh start.

Gabriel Sierra,
Criminal Justice


SAC is diverse in its classes.

Diana Alizaga,
Animation


SAC is the first school I chose to study, since leaving vietnam. Quyen Do,
Nursing


SAC is accepting to all types of people.
Jennifer Sommer,
Nursing


SAC is accepting.
Fernando Ramirez,
Anthropology


SAC is where I learned to excel in my field.
Danielle Hernadez,
Business


SAC is my college where I can study anything of my choice.
Nguyet Nguyen,
Pharmacist


SAC is career oriented.

Duncan Wilson,
Fire Technology


SAC is a place to discover my career.
Adela Salazar,
Undecided


SAC is a place to get work done.
Easter Fakopo,
Liberal Arts



SAC is the beginning of the end. (Transferring to UC Santa Cruz) Jacob Moreno,
Music


SAC is unique.

Daizy Lopez,
Nursing

## SANTA ANA COLLEGE <br> 1530 W. 17 th Street, Santa Ana

## - Centennial Education Center

 2900 W. Edinger Avenue, Santa Ana
## - Digital Media Center

1300 S. Bristol Street, Santa Ana

- Orange County Regional Sheriff's Training Academy 15991 Armstrong Avenue, Tustin
- Joint Power Training Center - Fire Academy 18301 Gothard, Huntington Beach


SAC is a second chance at football recognition.
Brett Hurley,
Undecided


SAC is a journey closer to my goals.
Solema Soliai,
Business Administration


[^0]:    * could change to correspond with unified school district
    ** beginning date could be adjusted
    $\dagger$ SAC/SCE Spring recess dates may be adjusted to correspond to unified school district instructional calendar

[^1]:    * Successful completion of these programs will appear on the transcript.

[^2]:    * 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 47 for additional information.
    *** High School transcript must be on file in the admissions office. Please consult with a counselor for additional information.

[^3]:    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.

[^4]:    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.

[^5]:    Kinesiology Fitness 126B
    Intermediate Upper Body Power
    Development
    Unit(s): 1.5
    Class Hours: 72 Laboratory total. An intermediate exercise program designed for added power and explosive movement as a result of resistance and plyometric training. Emphasis will be on the development of the upper body and supporting muscle groups. Sport specific movements and individual fitness goal setting will be introduced.

