



2012 • 2013 catalog

AND ANNOUNCEMENT OF COURSES

www.sac.edu

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.

† SAC/SCE Spring recess dates may be adjusted to correspond to

unified school district instructional calendar.



SANTA ANA COLLEGE / SANTIAGO CANYON COLLEGE **INSTRUCTIONAL CALENDARS**

COLLEGE CREDIT		Jl	JNE	• 2	012	2			J/	NU	AR۱	1 • 2	201	3
INSTRUCTIONAL C	ALENDAR 2012-2013	S	М	т	w	Т	F	s	s	М	т	w	т	F
FALL SEMESTER 201	2	•		•	•••	•	1	2	•	•••	1	2	3	4
August 20–22	Faculty projects	3	4	5	6	7	8	9	6	7	8	9	10	11
ugust 23-24	Common college flex days	10	11	12	13	14	15	16	13	14	15	16	17	18
ugust 27	INSTRUCTION BEGINS	17	18	19	20	21	22	23	20	21	22	23		25
eptember 3	Labor Day- holiday	24	25				29	30	27	28	29		31	23
eptember 9	Last day to add and to drop full-term classes without "W" grade with enrollment fee refund	24	25	20	21	20	29	30	21	20	29	30	31	
eptember 28 ctober 19	Last day to file Pass/No Pass Deadline for Graduation Petition	JL	JLY	• 20	012				FE	EBR	UΔF	RY •	20	13
ovember 12	Veterans' Day - holiday					_	_	_						
ovember 18	Last day to drop semester-length	S	M	T	W	T	F	S	S	M	Т	W	Т	F
ovember 22–24	classes with a "W" grade Thanksgiving – holiday	1	2	3	4	5	6	7	_		_	_	_	1
ecember 16	INSTRUCTION ENDS	8	9	10	11		13	14	3	4	5	6	7	8
ecember 17-January 5	Holiday break	15	16	17	18	19	20	21	10	11	12	13		15
PRING SEMESTER 2	*	22	23	24	25	26	27	28	17	18	19	20	21	22
nuary 21	King's Birthday – holiday	29	30	31					24	25	26	27	28	
nuary 22–23	Faculty projects													
nuary 24–25	Common college flex days													
nuary 28	INSTRUCTION BEGINS	Al	JGL	JST	• 2	012			M	ARC	CH (20	13	
bruary 10	Last day to add and to drop full-term classes	S	М	Т	w	Т	F	s	s	М	Т	w	Т	F
	without "W" grade with enrollment fee refund	•	•••	•	1	2	3	4	•	•••	•	••	•	1
oruary 15 oruary 18	Lincoln's Birthday – holiday President's day – holiday	5	6	7	8	9	10	11	3	4	5	6	7	8
rch 1	Last day to file Pass/No Pass									-				15
rch 8	Deadline for Graduation Petition	12	13	14		16	17	18	10	11	12	13	14	
rch 25–30	Spring recess	19	20	21	22	23	24	25	17	18	19	20	21	22
rch 29	Cesar Chavez Day	26	27	28	29	30	31		24	25	26	27	28	29
il 28	Last day to drop semester-length classes with "W" grade								31					
y 23	Commencement – Santiago Canyon College	SI	ΕPΤ	ЕМ	BEF	. 2	2012							
y 24	Commencement - Santa Ana College								ΔΙ	PRIL	• 5	201	3	
y 26	INSTRUCTION ENDS	S	M	Т	W	T	F	S	_					_
JMMER SESSION 20	013							1	S	M	Т	W	Т	F
JBJECT TO CANCE	LATION	2	3	4	5	6	7	8		1	2	3	4	5
y 27	Memorial Day - holiday	9	10	11	12	13	14	15	7	8	9	10	11	12
ne 17	INSTRUCTION BEGINS	16	17	18	19	20	21	22	14	15	16	17	18	19
y 4	Independence Day – holiday	23	24	25	26	27	28	29	21	22	23	24	25	26
gust 11	INSTRUCTION ENDS	30							28	29	30			
ONTINUING EDUC ISTRUCTIONAL C	ATION DIVISION ALENDAR 2012-2013													
LL SEMESTER 201		_0	СТС	BE	<u>R •</u>	201	2		M	AY •	• 20	13		
gust 20-24	Faculty projects	S	M	Т	W	Т	F	S	S	M	Т	W	Т	F
gust 20-24 gust 27	INSTRUCTION BEGINS		1	2	3	4	5	6				1	2	3
tember 3	Labor Day – holiday	7	8	9	10	11	12	13	5	6	7	8	9	10
vember 12	Veterans' Day - holiday	14	15	16	17	18	19	20	12	13	14	15	16	17
ember 19-24	Thanksgiving – holiday	21	22	23		25	26	27	19	20	21	22	23	24
ember 15	INSTRUCTION ENDS			30		25	20	21		27				
ember 17 - January 9	Winter recess	20	23	50	51				20	21	20	23	30	31
RING SEMESTER 2														
uary 11 & 14	Faculty projects	N	OVE	МВ	FR	• 20	112		.11	JNE	• 2	013	2	
uary 15	INSTRUCTION BEGINS								_					
uary 21	King's Birthday – holiday Lincoln's Birthday – holiday	S	М	Т	W	Т	F	S	S	M	Т	W	Т	F
ruary 15–16 ruary 18	President's Day – holiday					1	2	3						
ch 29	Cesar Chavez Day	4	5	6	7	8	9	10	2	3	4	5	6	7
il 1–6	SCE Spring recess†	11	12	13	14	15	16	17	9	10	11	12	13	14
/ 27	Memorial Day - Holiday	18	19	20	21	22	23	24	16	17	18	19	20	21
e 6	OEC Commencement	25	26	27	28	29	30		23	24	25	26	27	28
e 7 e 8	CEC Commencement INSTRUCTION ENDS								30					
MMER SESSION 20		וח	ECE	MB	ED	• 20	112							
1	INSTRUCTION BEGINS**							_	.11	JLY	. 20	112		
4	Independence Day - holiday	S	M	Т	W	T	F	S						
just 10	INSTRUCTION ENDS							1	S	M	T	W	Т	F
		2	3	4	5	6	7	8		1	2	3	4	5
		_	40		40	40	- 4	4 =	_	0	_	40	44	10
ould change to correspon	d with unified school district	9	10	11	12	13	14	15	7	8	9	10	11	12
could change to correspon peginning date could be ac				11 18						8 15				19

23 24 25 26 27 28 29

30 31

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, work force and economic development needs of our diverse community. Santa Ana College prepares students for transfer, employment, careers, and lifelong intellectual pursuit in a dynamic learning environment.

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

a. Information Competency

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

b. Technology Competency

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

4. Diversity

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

a. Cultural

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

b. Social

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

c. Environmental

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

5. Civic Responsibility

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

6. Life Skills

a. Creative Expression

Students will produce artistic and creative expression.

b. Aesthetic Appreciation

Students will respond to artistic and creative expressions.

c. Personal Growth

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

d. Interpersonal Skills

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

7. Careers

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

ACCREDITATION

Santa Ana College is accredited by the Accrediting Commission for Community and Junior Colleges 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.

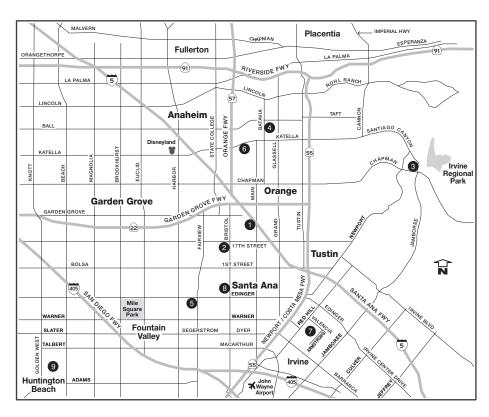
RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

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



KEY TO LOCATIONS

- 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
- Centennial Education Center 2900 W. Edinger Ave., Santa Ana
- Orange County Sheriff's Department Training Center 1900 W. Katella Ave., Orange
- Santa Ana College Orange County Sheriff's Regional Training Academy 15991 Armstrong Blvd., Tustin
- Digital Media Center
 1300 S. Bristol St., Santa Ana
- 9. Joint Powers Training Center 18301 Gothard, Huntington Beach

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 Canvon 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 2011, totaled 42,036 with 24,900 in college credit courses and 17,136 in classes for Continuing Education students. The Community Services Program serves another 3,000 residents who enroll in non-credit, fee-supported classes. Approximately 3,100 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.

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.

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	SANTA ANA COLLEGE
President Phillip E. Yarbrough Vice President Mark McLoughlin Clerk Arianna P. Barrios Member R. David Chapel, Ed.D. Member Brian E. Conley. M.A.	PRESIDENT. Erlinda Martinez, Ed.D. Assistant to the President Kennethia Vega Director-College Advancement Christina Romero Sports Information Coordinator-Public Affairs Jason Kehler
Member John R. Hanna Member Lawrence R. "Larry" Labrado Student Trustee Andrew C. Hanson	Administrative Services VICE PRESIDENT Paul Foster Supervisor-Custodial Ron Jones Interim Plant Manager Ron Jones
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CHANCELLOR Raúl Rodríguez, Ph.D. Executive Assistant to the Chancellor Debra Gerard	Dean Allen Dooley, Ed.D. Academic Computing Center Michael T. Nguyen
Human Resources/Educational Services	Counselor
EXECUTIVE VICE CHANCELLOR John Didion	Business Administration Chair
Assistant to the Vice Chancellor	Business Applications & Technology
Assistant Vice ChancellorJudy Chitlik Employment Services ManagerElouise Marasigan	ChairMichael T. Nguyen
Risk Management & Employee Benefits	Computer Science Chair
Educational Services	Distance Education
Assistant Vice Chancellor. Enrique Perez Executive Director-Child Development Services	Coordinator
Director-Early Head Start Program	Engineering Chair
Director–SAC–Child Development Center	Global Business and Entrepreneurship
Director-CEC-Child Development Center	Chair
Director-OEC-Child Development Center	Chair F. Richard Manzano, J.D.
Director, ACT Center Ruth Cossio-Muniz	Career Education & Workforce Development
Manager–Business & Entrepreneurship Centers, LocalMaricala Sandoval	DeanBart Hoffman
Director–Business & Entrepreneurship Centers, StatewideMichael Roessler Interim Director–Center for International Trade DevelopmentJetza Torres	CTE Transitions Coordinator
Director-Digital Media Center	CTE Counselor
Director–Grants	Fine & Performing Arts Division
Director–Research	Dean
Director-Corporate Training Institute Ruth Cossio-Muniz	Art
Director–Small Business Development Center Leila Mozaffari Public Affairs & Publications	Chair Sharon Brown, Ed.D. , Irene Soriano, Ph.D. Dance
Director-Communications and Publications	Chair Eve Kikawa Communication Studies
Business Operations & Fiscal Services	ChairLance Lockwood
VICE CHANCELLOR Peter J. Hardash	Communications and Media Studies Chair
Assistant to the Vice Chancellor Linda Melendez	Music
Auxiliary Services DirectorRhonda Langston	ChairBrian Kehlenbach, D.M.A.
Facility Planning	TV/Video Communications Chair
Assistant Vice Chancellor	Theatre Arts
District Construction & Support Services Director	ChairValinda Tivenan
Fiscal Services	Kinesiology, Health & Athletics Division
Interim Assistant Vice Chancellor	Dean
Accounting Manager–Accounts Payable	Counselor
Project ManagerSheena Tran	Head Coach-Baseball
Budget Analysts Thao Nguyen, Gina Huegli	Head Coach-Basketball-Men David Breig Head Coach-Basketball-Women Flo Luppani
Information Technologies Services Assistant Vice ChancellorSylvia LeTourneau	Head Coach-Cross Country-WomenMiriam Mitzel
Director-Computer Programming	Head Coach-Football
Director-Academic Support Curtis Childress, Nick Quach	Head Coach-Golf-Women Kris Olsen Head Coach-Soccer-Men Jose Vasquez
Purchasing DirectorTracey Conner-Crabbe	Head Coach-Soccer-WomenJose vasquez Head Coach-Soccer-WomenJessica Rapoza
Security/Safety	Head Coach-Softball
Director-District Safety/SecurityAl Chin	Head Coach–Swimming-Women
	Head Coach-Volleyball-Women
	Head Coach-Water Polo-Men Alfred Reyes
	Head Coach-Water Polo-Women
	rieau Ooacii-virestiirigVince Silva



Humanities & Social Sciences Division	Physical Science
Interim Dean	Co-Chairs
Counselor	Student Services VICE PRESIDENT OF STUDENT SERVICES Sara Lundquist, Ph.D.
ChairSandy Wood	Admissions and Records
Economics/Geography ChairBill Courter	Associate Dean-Admissions & Records Mark Liang, J.D.
English Courter	Registrar
ChairShelly Jaffray	Counseling Division DeanMicki Bryant, Ph.D.
ESL Chair Elissa Hassel	Co-Chairs
Ethnic Studies	Articulation Officer Paula Canzona Counselor/Coordinator–MESA
Chair	Counselor/Coordinator-PUENTE Reina Sanabria
History Chair Kristen Guzman, Ph.D.	Counselor/Coordinaror-Teacher Education
Honors Transfer Program Coordinator	Counselor/Coordinator-U-LINKRochelle Zook
Modern Languages	Career/Job Resource Center
Chair	EOPS/CARE
Philosophy Chair Zachary Fish, Ph.D.	Associate Dean–EOPS
Political Science	0Counselor/Coordinator-CARE/CalWORKs Programs
Chair Philippe Andrade, Ph.D.	Coordinator-EOPS Resource Center
Psychology Chair Fernando Ortiz, Ph.D.	Counselor/Coordinator-YESS Program Joanna Campos, Sylvia Sanchez Coordinator-Tutorial Program
Reading	Financial Aid
Chair	Associate Dean-Financial Aid Robert Manson
Human Services and Technology Division	Coordinator-Student Placement Janet Grunbaum Veterans Office Dorothy Nacita
Dean Bart Hoffman Counselor Reina Sanabria	Special Services
Automotive Technology/Diesel/Welding	Associate Dean–DSPS Elyse Chaplin, Ph.D.
Co-Chairs	Coordinator–Communication Disabilities/ABI
Criminal Justice Co-Chairs	Coordinator-Health & Wellness Center Rebecca Barnard
Criminal Justice Academies	Coordinator–DSPS
Assistant Dean	Coordinator-Speech, Lang., Pathology Assistant Monica Porter
Family & Consumer Studies Chair	Counselor/Coordinator–Testing Center
Fire Technology	Training Director–Psych Services
Assistant Dean of Fire Technology	Student Affairs
Coordinator–Fitness Program Kris Ross, Terri Wann	Dean Lilia Tanakeyowma Associate Dean-Student Development Loy Nashua, J.D.
Coordinator–Fire Officer Academy	Assistant Dean-Student Services Teresa Mercado-Cota
Human Development Chair	Coordinator–Community Services Lithia Williams Coordinator–Gear Up John Vu
Manufacturing Technology	Coordinator-Student Activities
Chair Dietrich Kanzler Media Systems	
Media Systems	•
Assistant Dean	International Students Office
Assistant Dean	International Students Office
Assistant Dean Don Mahany Occupational Therapy Assistant Coordinator Michelle Parolise	International Students Office Kanana Gitonga Service Learning Center Office John Vu Coordinator–SSSP/Upward Bound Romelia Madrigal Coordinator–Talent Search Marco Ramirez
Assistant Dean	International Students Office Kanana Gitonga Service Learning Center Office John Vu Coordinator–SSSP/Upward Bound Romelia Madrigal Coordinator–Talent Search Marco Ramirez Continuing Education
Assistant Dean Don Mahany Occupational Therapy Assistant Coordinator Michelle Parolise Pharmacy Technology Chair K.C. Huynh, Pharm.D. Quick Center	International Students Office
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Assistant Dean Don Mahany Occupational Therapy Assistant Coordinator Michelle Parolise Pharmacy Technology Chair K.C. Huynh, Pharm.D. Quick Center Dean Bart Hoffman Library Division	International Students Office Kanana Gitonga Service Learning Center Office John Vu Coordinator–SSSP/Upward Bound Romelia Madrigal Coordinator–Talent Search Marco Ramirez Continuing Education INTERIM VICE PRESIDENT James Kennedy Dean–Instruction/Student Services–Santa Ana Sergio Sotelo, Ph.D. Associate Dean–Instruction/Student Services Christine Kosko Associate Registrar Phuong Nguyen
Assistant Dean Don Mahany Occupational Therapy Assistant Coordinator Michelle Parolise Pharmacy Technology Chair K.C. Huynh, Pharm.D. Quick Center Dean Bart Hoffman Library Division Counselor Robert Gallego Chair-Library Luis Pedroza/Nell Yang	International Students Office Kanana Gitonga Service Learning Center Office John Vu Coordinator–SSSP/Upward Bound Romelia Madrigal Coordinator–Talent Search Marco Ramirez Continuing Education INTERIM VICE PRESIDENT James Kennedy 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
Assistant Dean Don Mahany Occupational Therapy Assistant Coordinator Michelle Parolise Pharmacy Technology Chair K.C. Huynh, Pharm.D. Quick Center Dean Bart Hoffman Library Division Counselor Robert Gallego Chair—Library Technology Program Yolanda Garcia	International Students Office Kanana Gitonga Service Learning Center Office John Vu Coordinator–SSSP/Upward Bound Romelia Madrigal Coordinator–Talent Search Marco Ramirez Continuing Education INTERIM VICE PRESIDENT James Kennedy 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
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NONDISCRIMINATION POLICY

The Rancho Santiago Community College District complies with all Federal and state rules and regulations and does not discriminate on the basis of ethnic group identification, national origin, religion, age, sex, race, color, ancestry, sexual orientation, or physical or mental disability, or on the basis of these perceived characteristics or based on association with a person or group with one or more of these actual or perceived characteristics. This holds true for all students who are interested in participating in educational programs and/or extracurricular school activities. Harassment of any employee/student with regard to ethnic group identification, national origin, religion, age, sex, race, color, ancestry, sexual orientation, or physical or mental disability, or on the basis of these perceived characteristics or based on association with a person or group with one or more of these actual or perceived characteristics is strictly prohibited. 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 cumple con los reglamentos y leyes Federales y estatales y no discrimina en base a ningún grupo étnico, descendencia nacional, religión, edad, sexo, raza, color, antepasados, orientación sexual, discapacidad física o mental o en base a estas características o en base a una persona o grupo que tenga o se crea tenga una de éstas características. Esto también se aplica a todos los estudiantes que están interesados en participar en programas educacionales y/o en actividades escolares que sean extracurriculares. El hostigamiento en contra de cualquier empleado/estudiante con respecto a su grupo étnico, descendencia nacional, religión, edad, sexo, raza, color, antepasados, orientación sexual, discapacidad física o mental o en base a estas características o en base a una persona o grupo o por estar asociado con una persona o grupo que tenga o se crea tenga una de éstas características, está estrictamente prohibido.

Las preguntas sobre el cumplimiento de estas leyes o del proceso de quejas pueden ser dirigidas al Oficial del Distrito a cargo del cumplimiento del Título IX y al Coordinador de la Sección 504/ADA

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

CHÍNH SÁCH KHÔNG KỲ THI

Khu-Học-Chánh Rancho Santiago Community College District chấp hành tất cả luật lệ và qui định của chính quyền Tiểu Bang và Liên Bang và không kỳ thị bởi vì lý do chủng tộc, nguồn gốc, tôn giáo, tuổi tác, phái tính, dân tộc, màu da, gia tộc, khuynh hướng tính dục, hoặc tình trạng khiếm tật về thể xác hay tâm thần, hoặc vì những lý do nêu bên trên bởi vì căn cứ vào các cá tính này trên thực chất hay qua nhận thức. Chính sách này áp dụng cho tất cả các sinh viên mong muốn tham dự vào các chương trình giáo dục hoặc sinh hoạt của nhà trường. Tuyệt đối cấm những hành động sách nhiễu nhân viên/sinh viên bởi vì lý do chủng tộc, nguồn gốc, tôn giáo, tuổi tác, phái tính, dân tộc, màu da, gia tộc, khuynh hướng tính dục, hoặc tình trạng khiếm tật về thể xác hay tâm thần, hoặc vì những lý do nêu bên trên bởi vì căn cứ vào các cá tính này trên thực chất hay qua nhận thức. Những câu hỏi về việc chấp hành và/hoặc về thủ tục khiếu nại có thể liên lạc về Viên Chức District's Title IX Officer của Khu-Học-Chánh và/hoặc Phối Trí Viên Section 504/ADA Coordinator:

John Didion, 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 at Santa Ana College or 714-564-5040 at Centennial Education Center.

Credit By Examination

Division offices at Santa Ana College have the list of courses which may be challenged for credit by examination. Students who successfully pass the division examination may receive college credit without having taken the course.

Child Development Centers

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

Centennial Center (2½-5 years old) 2900 W. Edinger, Santa Ana, 714-564-5090

Santa Ana College Infant/Toddler/Preschool Center (6 months-5 years old) 1720 W. 17th St., Santa Ana, 714-564-6894

Santa Ana College Child Development Center East Campus (2.9 to 5 years old) 1510 N. Parton St., Santa Ana, 714-564-6952

Disabled Students Programs and Services (DSPS) Santa Ana College

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 is a centralized location on campus that provides intake and referral services to all Santa Ana College students with disabilities. We are here to provide information and support to the campus, students, and community about the resources available for disabled students. The main office houses the Physical Disabilities program, Developmentally Delayed Learner services, and Master level Social Work Interns. Services include, but are not limited to instructional equipment and wheelchair loans, academic and vocational advisement, gate/elevator passes, mobility orientations, note taking, test accommodations, and registration assistance. We also provide a computer lab that offers assistive technology software, which includes JAWS, Zoomtext, Dragon Naturally Speaking, Kurzweil, and CCTV. For information, call 714-564-6295 or visit R-101 at Santa Ana College. You can also call 714-564-6246 or visit U-103.

Assistive Technology Center

The Assistive Technology Center, located in room U-103 at Santa Ana College, provides computer assisted instruction through the use of assistive technology for disabled students. Word processing, database, spreadsheets, windows, telecommunications, computer literacy, and specialized software make up the curriculum. For information, call 714-564-6264.

Communication Disabilities/ **Acquired Brain Impairment**

Diagnosis, advisement, and individualized or small group instruction are provided in the Speech/Language Center for students with disabilities attributable to speech and language limitations.

Special classes and support services are available for students with verifiable acquired brain injuries. Program planning, registration assistance, assessment, computer assisted instruction, and support groups are available. For further information, call 714-564-6280 or visit M-105 at Santa Ana College.

Deaf and Hard of Hearing Services

Students who are deaf, hard of hearing, late deafened, oral hearing loss or deaf/blind may receive accommodations from the Deaf and Hard of Hearing Program. Accommodations may include: sign language interpreters, assistive listening devices, preferential seating, volunteer note takers, academic and vocational advisement, registration assistance. For more information and to request services, please call 714-564-6283 Voice, 714-564-6284 TTY (message) or stop by U-107 at Santa Ana College.

Learning Disabilities

The Learning Disabilities Program is designed to help students who have average or above average potential for learning and who exhibit significant difficulties in at least one academic area. The expected goal of participation in the program is to enable the student 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 Disabilities Program is 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, or to schedule an appointment, 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, on their own time. The courses are academically equivalent to on-campus courses. 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, one or more on campus meetings may be required. Hybrid (Blended) courses combine face-to-face classroom instruction with online learning. Telecourses are pre-produced television courses, which can be seen on television or DVD, available in the college library or bookstore.



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.

Financial Aid Services

Financial aid is available to eligible students in meeting the costs of books, supplies, tuition and living costs. See pages 15-16.

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

(For information see page 18, International Student Admissions)

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.

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 Wi-Fi access.

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

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.

Senior Services

The college offers a variety of classes, support services and activities designed to meet the personal, social, career and job search needs of older adults. Special highlights include Extended and Day Travel Program, Volunteer Bureau, and a matinee seminar series.

Student Activities

Student Activities are planned with sufficient variety and frequency to provide an opportunity for all students to participate. Students may develop additional cocurricular activities when there is sufficient interest to justify them. See page 14.

Student Placement

The Student Placement office offers a variety of on-campus employment opportunities. This office also provides housing listings placed by members of the community.



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, ESL, 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 test 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.

Tutorial Learning Center

The Tutorial Learning Center, located in the Johnson Campus Center at Santa Ana College, makes a variety of tutorial programs and services available to help students maximize their learning potential. The following services are offered by the Center: individual and small group tutoring sessions in many subject areas; review sessions prior to examinations; a class to improve study skills (Study Skills 091). For further information call 714-564-6260.

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 socialize with other veterans at the college. Rancho Santiago Community College District is approved by the California Bureau for Private Postsecondary and Vocational Education for the training of veterans and eligible persons. Please call for additional information or assistance (714-564-6050) or come to our office SAC U-103.

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 entitle-

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 or contact the local Orange County Service Center, Santa Ana, phone 714-567-7450.

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 U-103.



Transcripts and Program Approval

VA regulations stipulate that prior credit must be evaluated by the beginning of the third semester of attendance. If the required transcripts are not on file, the VAO will not be able to certify payment beyond the second semester. With this in mind the VAO requests that all official transcripts be on file with the Admissions Office by the end of the first semester of attendance. This will avoid any delay in payments since transcripts do not always arrive in a timely manner.

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 Santa Ana College or 714-628-4800 at Santiago Canyon College 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 pay educational benefits for the period of time that each course is active as shown by the beginning and ending dates in the semester class schedule. Students must be enrolled in at least half time, (6.0 units-regular sessions and 3.0 units-mini and summer sessions) to be eligible for regular payment. under Chapter 33.students must be more than 1/2 time and have a least one campus based course to receive BAH. A veteran or eligible student attending less than 1/2 time can be reimbursed tuition and fees, not to exceed the normal monthly rate for a fulltime, 3/4 time or 1/2 time student. Veterans and eligible persons who wish 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 Students of Rancho Santiago Community College District (ASRSCCD)

ASRSCCD 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 714-564-6207, or call Student Activities, Santa Ana College at 714-564-6210.

Each student enrolled in the district is automatically a member of ASRSCCD. Upon registration each student is issued a current semester receipt card which is used to obtain a student photo identification card which enables student to use a variety of college services.

Student Activities

The ASRSCCD. Inter-Club Council (ICC) and Student Activities Offices sponsor a variety of educational and social programs, campus activities and services for Student Life. The Associated Students provide multicultural events, health awareness events, holiday and themed events. Homecoming and Springfest activities, 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 Inter-Club 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 social security number, have a high school diploma and have passed the CAHSEE Exam, GED or meet the Ability to Benefit requirements.

For additional information and a Free application for Federal Student Aid (FAFSA), 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/students/support_services/financial_aid/.

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 \$555 to \$5,500 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

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 interest-

subsidy 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 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

Cal Grant programs are available to California residents who qualify. A student must be a U.S. citizen, a permanent resident or an eligible non-citizen, and a California resident attending an eligible college located in California and making satisfactory academic progress. For all Cal Grants, apply between January 1 and March 2 each year using the FAFSA and GPA verification forms.

Cal Grant A

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

Awards range from \$9,708 at independent schools and colleges, \$7,788 at the University of California, and \$3,354 at the California State University.

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

Scholarships

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 up to \$10,000.

Eligibility varies according to the individual scholarship. There are scholarships available for students taking classes at the college and to those students entering college for the first time upon graduation from high school.

Listings and requirements for the various scholarships are published in November in a Scholarship book. Information, applications and assistance are available in the Scholarship Program office. Applications must be submitted for screening in March. Student recipients will be notified in May. Some scholarships are available to students who are not eligible to apply for federal financial aid.

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.

Foundations

The Rancho Santiago Community College District serves a multi-college community with two college foundations, meeting the needs of the Santa Ana and Orange service areas. The boards of directors of the two college foundations represent a broadbased group of community volunteers dedicated to enhancing the developmental and program needs of the colleges and district.

Each of the non-profit foundations sponsors fund-raising events throughout the year and is actively involved in community projects which broaden the awareness of the college and district activities. To this end, the college foundations solicit the support of the community by receiving tax deductible donations of cash gifts, bequests, trusts, endowments, corporate grants, life insurance benefits, and personal or real property.

We invite you to join us in our drive to maintain, expand and enhance educational opportunities in the Rancho Santiago Community College District service areas.

If you are interested in more information about the foundations and how you can participate in supporting our many programs, please contact the foundation offices directly by calling:

Santa Ana College Foundation Office 714-564-6091



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

ΩR

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).

File transcript of previous high school(s) and colleges attended with the Admissions and Records Office if carrying more than six units or pursuing a degree at Santa Ana College.

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.

- Plan to accumulate 15 units at a college in the Rancho Santiago Community College District.
- Plan to enroll in an English composition, reading, English as a Second Language (ESL), or math course.
- 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 and reading, ESL, 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 ESL or EMLS 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 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 to the Testing Center.

For information regarding Disabled Student Services (physical, learning and/or communication disabilities) please call 714-564-6295 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

New and Former Students

New or former students who complete an Admission application on-line will receive registration information by email.

- 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.

Continuing Students

A 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.

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

At registration each student is issued a program verification card which is subsequently presented at either Santa Ana College or Santiago Canyon College in order to obtain a Student Photo Identification card. This card enables the student to use the Library, Health Center, computer laboratories, the Admissions Office, and variety of college services. Check fees in the Schedule of Classes.

Full-Time - Part-Time Definition

Full-time students are enrolled in 12 or more units; part-time students are enrolled in fewer than 12 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-time12 or more units three-fourth benefits 9 through 11 units one-half benefits6 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

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 24 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 "Residency Determination Date" which is the day immediately preceding the opening of instruction. A non-resident is a student who has not established residence in the State of California for one year as of the residency determination date.

- 1. Persons who are 18 years of age or older (adults) establish residency in accordance with EC 68017 above. Adult residency begins after the 18th birthday.
- 2. 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).
- 3. Exceptions apply under certain conditions to active members of the military and full-time teachers holding valid credentials in public schools.
- 4. Specific residency problems will be answered by the Admissions and Records Office or referred to the County Counsel.
- 5. Non-Citizen Students: Students with a "permanent resident" visa, refugee status, or amnesty approval may establish residency in accordance with above discussion. All visas must be examined by the college to determine residency status.

AB 540

Pursuant to Education Code 68130.5 (AB 540), any student, other than nonimmigrant aliens, who meet all of the following requirements, are exempt from paying the nonresident tuition fees.

- 1. Attendance in a California high school for three or more years.
- 2. Graduation from a California high school or attainment of the equivalent prior to the start of the term.
- 3. Students without lawful immigration status must have filed an application to legalize their immigration status or will file for lawful status as soon as they are eligible to do so. The student is required to submit an affidavit with the college admissions application to verify that the student has met all conditions described above.

Note: Students who are nonimmigrant aliens (e.g., F series student visas or B series visitor visas) are not eligible for this AB 540 exemption unless they have applied to INS for a change of status to other than nonimmigrant status and meet all other requirements for the exemption.

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 reguired with the application.

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

- 1. The international student must submit a complete, official academic transcript of all high school and previous college work attempted. Transcripts must be officially translated into English, bear the school seal, and be signed by the registrar or another appropriate official. Applicants are considered for admission only if their course grades are above average (C+ or higher).
- 2. International students must have sufficient knowledge of English to enable them to profit from instruction at the college level. Adequacy of English proficiency is determined by a satisfactory score (450+) on the Test of English as a Foreign Language (TOEFL), administered worldwide by the Educational Testing Service, Box 899, Princeton, New Jersey 05840.
- 3. International students must be at least 18 years of age unless they are graduates of an accredited United States high school.
- 4. Students on the F-1 Visa must present evidence that they have financial resources to defray costs during the period of attendance at the college. Approximate annual costs for a student enrolled in 12 units each semester are: a nonresident tuition fee of \$4,872.00; health insurance, \$984.00; textbooks and supplies, \$800.00; living expenses, \$12,000.00, enrollment fee \$1,104.00, other fees \$211.00 for a total of \$21,771.00. 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.
- 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.

Fees, Tuition, and Expenses

- 1. All students are required to pay enrollment fees of \$46.00 per unit.
- A health fee of \$18.00 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.

- 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 \$203.00 per unit in addition to the enrollment fees.

Visa, Mastercard and Discover are accepted for all 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.

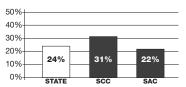
There is no refund for variable units not completed.

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.

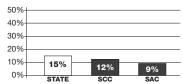
Of the degree, certificate or transfer seeking first-time freshman students who entered RSCCD in Fall 2007, the "completion rate" represents those students who earned an Associates Degree, certificate of completion, or 56 UC/CSU transferable credits within three years.

2007 COHORT COMPLETION



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

2007 COHORT TRANSFER



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

Registered Sex Offender Information

Information concerning registered sex offenders can be obtained from: the Santa Ana Police Department, 3rd Floor Lobby, 60 Civic Center Plaza, Santa Ana, on Mondays through Fridays, from 9am to 12pm and from 1-4pm; and from the Orange Police Department, Youth Services Bureau (Rene Nicholson), 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."

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 714-564-6085.

Right To Review and Challenge Records

Students have the right to inspect and review any of the following files which relate directly to them: admissions/records, data processing, financial aids, placement, veterans, and division/department, if such files are maintained as official files rather than individual files. Request forms are available in the office of the Vice President of Student Services at Santa Ana College.

After review and explanation, students may challenge any information relating to them, if the information is believed 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 Vice President of Student Services at Santa Ana College.

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.

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 who have a legitimate educational interest, such as counseling and carrying out the normal operations of the college, have access to student records without student permission.

Any student has the right to file complaint with the U.S. Department of HEW concerning alleged failure of the institution to comply with provisions above or section 438 of the General Education Provision.

Grievance Procedures

Rancho Santiago Community College District does not discriminate on the basis of race, color, national origin, ancestry, religion, 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 also file a grievance when they believe they have been deprived of a right granted by the Board of Trustees in any of the policies or regulations of the District.

The purpose of all grievance procedures is to resolve differences as fairly and expeditiously as possible while preserving the rights of students and staff members.

Information on student grievance procedures is available from the Associate Dean, Student Development, whose office is located in the Johnson Campus Center at the Santa Ana College. Grievances should be filed with Student Services in room S-215, telephone 714-564-6085 for Santa Ana College.

Campus Regulations

- The Rancho Santiago Community
 College District supports liberal policies
 regarding free speech for individual
 students, college staff, nonofficial
 college groups, and visiting speakers.
- Publicity for off-campus activities and organizations must be cleared through the Students Activities Office, in the Johnson Campus Center at Santa Ana College.
- Posting or distribution of publicity for student activities on campus must be authorized by the Associated Students.
- 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.



COLLEGE POLICIES

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 courses. All letter grades must be C or better. Rancho Santiago Community College District coursework and all transfer work will be computed in the Honor designated GPA.

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

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

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

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

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

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

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.

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.

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.



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)/ Units Awarded (can also be used on Plan A)	CSU-GE (Plan B) Certification Area/ Semester Units Awarded ¹	CSU Minimum Semester Units Granted ²	IGETC (Plan C) Certification Area/ Semester Units Awarded ³	UC Minimum Semester Units Granted ⁴
Art History	ART 101 and 102 6 units	Area C1 or C2 ⁵ 3 units	6 units	Area 3A or 3B ⁵ 3 units	5.3 units
Studio Art: Drawing	ART 130 3 units	N/A	3 units	N/A	5.3 units (5.3 units maximum combined credit for all three Studio Art exams)
Studio Art: 2-D	ART 110 3 units	N/A	3 units	N/A	5.3 units (5.3 units maximum combined credit for all three Studio Art exams)
Studio Art: 3-D	ART 111 3 units	N/A	3 units	N/A	5.3 units (5.3 units maximum combined credit for all three Studio Art exams)
Biology	BIOL 109 3 units	Area B2 and B3 4 units	6 units	Area 5B with lab 4 units	5.3 units
Calculus AB	MATH 180 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 (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 (5.3 units maximum combined credit for both Calculus exams)
Calculus BC/AB Subscore	MATH 180 4 units	Area B4 3 units	3 units (only one Calculus exam may be applied toward CSU degree)	Area 2A 3 units	2.7 units (5.3 units maximum combined credit for both Calculus exams)
Chemistry	CHEM 219 5 units	Area B1 and B3 4 units (6 units if passed prior to F '09)	6 units	Area 5A with lab 4 units	5.3 units
Chinese Language and Culture	Plan A Area C 3 units	Area C2 3 units	6 units	Area 3B and 6A 3 units	5.3 units
Computer Science A	CMPR 121 3 units (with SAC CMPR department approval)	N/A	3 units (only one 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: Macroeconomics	ECON 120 3 units	Area D2 3 units	3 units	Area 4 3 units	2.7 units
Economics: Microeconomics	ECON 121 3 units	Area D2 3 units	3 units	Area 4 3 units	2.7 units
English: Language and Composition	ENGL 101 4 units	Area A2 3 units	6 units	Area 1A 3 units	5.3 units (5.3 units maximum combined credit for both English exams)



Advanced Placement Exam	SAC Course(s)/ Units Awarded (can also be used on Plan A)	CSU-GE (Plan B) Certification Area/ Semester Units Awarded ¹	CSU Minimum Semester Units Granted ²	IGETC (Plan C) Certification Area/ Semester Units Awarded ³	UC Minimum Semester Units Granted ⁴
English: Literature and Composition	ENGL 101 4 units	Area A2 and C2 6 units	6 units	Area 1A or 3B ⁵ 3 units	5.3 units (5.3 units maximum combined credit for both English exams)
Environmental Science	BIOL 200 or ENVR 200 3 units	Area B1 and B3 4 units (B1 and B3, or B2 and B3 if test taken prior to F '09)	4 units	Area 5A 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	Plan A , Area C 3 units	Area C2 3 units ⁶	6 units	Area 3B and 6A 3 units	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	GEOG 102 3 units	Area D5 3 units	3 units	Area 4 3 units	2.7 units
Government & Politics: Comparative	POLT 201 3 units	Area D8 3 units	3 units	Area 4 3 units	2.7 units
Government & Politics: United States	POLT 101 3 units	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	HIST 102 3 units	Area C2 or D6 ⁵ 3 units	6 units	Area 3B or 4 ⁵ 3 units	5.3 units
History: United States	HIST 120 and 121 6 units	Area C2 or D6 ⁵ 3 units and completion of the US Hist. portion of the US Hist. Const. & 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	Area C2 or D6 ⁵ 3 units	6 units	Area 3B or 4 ⁵ 3 units	5.3 units
Italian Language and Culture	Plan A, Area C 3 units	Area C2 3 units	6 units	Area 3B and 6A 3 units	5.3 units
Japanese Language and Culture	Plan A, Area C 3 units	Area C2 3 units	6 units	Area 3B and 6A 3 units	5.3 units
Latin: Literature	Plan A, Area C 3 units	Area C2 3 units ⁶	6 units	Area 3B and 6A 3 units	2.6 units
Latin: Vergil	Plan A, Area C 3 units	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
Physics B	PHYS 279 and 289 8 units	Area B1 and B3 4 units ⁸ (6 units if passed prior to F '09)	6 units	Area 5A with lab 4 units	5.3 units (5.3 units maximum combined credit for all three Physics exams)
Physics C (Electricity and Magnetism)	PHYS 227 4 units	Area B1 and B3 4 units ⁸	4 units	Area 5A with lab 3 units	2.7 units (5.3 units maximum combined credit for all three Physics exams)
Physics C (Mechanics)	PHYS 217 4 units	Area B1 and B3 4 units ⁸	4 units	Area 5A with lab 3 units	2.7 units (5.3 units maximum combined credit for all three Physics exams)

(Continued on next page)



Advanced Placement Exam	SAC Course(s)/ Units Awarded (can also be used on Plan A)	CSU-GE (Plan B) Certification Area/ Semester Units Awarded ¹	CSU Minimum Semester Units Granted ²	IGETC (Plan C) Certification Area/ Semester Units Awarded ³	UC Minimum Semester Units Granted ⁴
Psychology	PSYCH 100 3 units	Area D9 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.

- ⁴This 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.

Attendance

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

Auditing

Santa Ana College does not permit auditing of classes.

Career Advanced Placement Program

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.

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.

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.

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

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

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

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



The College-Level Examination (CLEP) Policies

Santa Ana College will grant a maximum of 30 units of credit for any combination of 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.** SAC course credit for CLEP examinations as well as use of exams for SAC prerequisite clearance and major requirements is granted according to the determination of the appropriate area dean in consultation with the department. See a counselor for more information. When credit is granted for an exam in lieu of a course, the units may not exceed the units given for the designated course at SAC. 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 (Plan A)	CSU-GE (Plan B) Certification Area/ Semester Units ¹	CSU Minimum Semester Units Granted ²
	BUSINESS		I
Financial Accounting	N/A	N/A	3 units
Information Systems and Computer Applications	N/A	N/A	3 units
Introductory Business Law	N/A	N/A	3 units
Principles of Accounting	N/A	N/A	3 units
Principles of Management	N/A	N/A	3 units
Principles of Marketing	N/A	N/A	3 units
COM	IPOSITION AND LIT	TERATURE	
American Literature	Area C 3 units	Area C2 3 units	3 units
Analyzing and Interpreting Literature	Area C 3 units	Area C2 3 units	3 units
English Composition (no Essay)	N/A	N/A	0 units
English Composition (with Essay)	N/A	N/A	0 units
English Literature	Area C 3 units	Area C2 3 units	3 units
Freshman College Composition	N/A	N/A	0 units
Humanities	Area C 3 units	Area C2 3 units	3 units
	FOREIGN LANGUA	AGES	
French Level I	N/A	N/A ³	6 units
French Level II	Area C 3 units (Required Score of 59)	Area C2 ³ 3 units (Required Score of 59)	12 units (Required Score of 59)
German Level I	N/A	N/A ³	6 units
German Level II	Area C 3 units (Required Score of 60)	Area C2 ³ 3 units (Required Score of 60)	12 units (Required Score of 60)
Spanish Level I	N/A	N/A ³	6 units
Spanish Level II	Area C 3 units (Required Score of 63)	Area C2 ³ 3 units (Required Score of 63)	12 units (Required Score of 63)
HIST	ORY AND SOCIAL	SCIENCES	
American Government	Area B1 or B2 3 units	Area D8 3 units	3 units
History, United States I	Area B1 3 units	Area D6 and US-1 ⁵ 3 units	3 units
History, United States II	Area B1 3 units	Area D6 and US-1 ⁵ 3 units	3 units
Human Growth and Development	^A rea B2 3 units	Area E1 3 units	3 units
Introduction to Educational Psychology	N/A	N/A	3 units
Introductory Psychology	Area B2 3 units	Area D9 3 units	3 units
Introductory Sociology	Area B2 3 units	Area D10 3 units	3 units

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.



College-Level Examination Program Exam	SAC GE (Plan A) Area/Units (Plan A)	CSU-GE (Plan B) Certification Area/ Semester Units ¹	CSU Minimum Semester Units Granted ²		
Principles of Macroeconomics	Area B2 3 units	Area D2 3 units	3 units		
Principles of Microeconomics	Area B2 3 units	Area D2 3 units	3 units		
Social Sciences and History	N/A	N/A	0 units		
Western Civilization I	Area B2 3 units	Area C2 or D6 ⁴ 3 units	3 units		
Western Civilization II	Area B2 3 units	Area D6 3 units	3 units		
SCIENCE AND MATHEMATICS					
Biology	Area A 3 units	Area B2 3 units	3 units		
Calculus	Area E2 3 units	Area B4 3 units	3 units		
Chemistry	Area A 3 units	Area B1 3 units	3 units		
College Algebra	Area E26 3 units	Area B4 3 units	3 units		
College Algebra – Trigonometry	Area E26 3 units	Area B4 3 units	3 units		
College Mathematics	N/A	N/A	0 units		
Natural Sciences	Area A 3 units	Area B1 or B2 3 units	3 units		
Pre-Calculus	Area E2 3 units	Area B4 3 units	3 units		
Trigonometry	Area E2 3 units	Area B4 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 baccalaureate. For each test in a language other than English, a passing score of 50 is considered "Level I" and earns six units of baccalaureate credit; the higher score listed for each test is considered "Level II" and earns additional units of credit and placement in Area C2 of GE Breadth, as noted.
- ⁴ CLEP exam may be used in either area regardless of where CLEP discipline is located.
- ⁵This examination only partially fulfills the CSU US History, Constitution, and American Ideals **graduation** requirement but can be used toward the requirement. (Please note that no CLEP exam fulfills the California State and Local Government portion, US-3.) See a counselor for more information.
- ⁶ Also fulfills Math Proficiency.

Non Repeatable Course: A student who earns a D, F, or NP (No Pass) grade may repeat the course twice to improve the grade of the substandard work. The last grade earned will count in the GPA calculation.

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).

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.
- 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 tran-



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

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 advise-



ment and supervision. The projects may be directed field experience, research, or development of skills and competencies. Independent study credit may be earned in any discipline. Transfer credit is 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. Rec-

ommended 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

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) Area/ Units Awarded	CSU-GE (Plan B) Certification Area/ Semester Units Awarded ¹	CSU Minimum Semester Units Granted ²	IGETC (Plan C) Certification Area/ Semester Units Awarded ³	UC Minimum Semester Units Granted ⁴
Biology HL	Area A 3 units	Area B2 3 units	6 units	Area 5B (without lab) 3 units	5.3 units
Chemistry HL	Area A 3 units	Area B1 3 units	6 units	Area 5A (without lab) 3 units	5.3 units
Economics HL	Area B2 3 units	Area D2 3 units	6 units	Area 4 3 units	5.3 units
Geography HL	Area B2 3 units	Area D5 3 units	6 units	Area 4 3 units	5.3 units
History (any region) HL	Area B2 3 units	Area C2 or D6 ⁵ 3 units	6 units	Area 3B or 4 ⁵ 3 units	5.3 units
Language A1 (any language) HL ⁷	Area C 3 units	Area C2 3 units ⁶	6 units ⁶	Area 3B 3 units	5.3 units
Language A1 (any language, except English) HL ⁷	Area C 3 units	Area C2 3 units ⁶	6 units ⁶	Area 3B and 6A 3 units	5.3 units
Language A2 (any language) HL ⁷	Area C 3 units	Area C2 3 units ⁶	6 units ⁶	Area 3B 3 units	5.3 units
Language A2 (any language, except English) HL ⁷	Area C3 units	Area C2 3 units ⁶	6 units ⁶	Area 3B and 6A 3 units	5.3 units
Language B (any language) HL ⁷	Area C 3 units	N/A	6 units ⁶	Area 6A 3 units	5.3 units
Mathematics HL Passing Score: 4	Area E28 3 units	Area B4 3 units ⁶	6 units ⁶	Area 2A 3 units	5.3 units
Physics HL	Area A 3 units	Area B1 3 units	6 units	Area 5A (without lab) 3 units	5.3 units
Psychology HL	Area B2 3 units	Area D9 3 units	3 units	Area 4 3 units	5.3 units
Theatre HL	Area C 3 units	Area C1 3 units ⁶	6 units ⁶	Area 3A 3 units	5.3 units

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.

⁴This 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.

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

⁸ Also fulfills Math Proficiency.



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, Vocational 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 coreq-

uisite 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:

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

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

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



be permitted to enroll if space is available when the student registers for that subsequent term.

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

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

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

Students who are academically dismissed after fall semester are given the academic standing of Subject to Dismissal. The student is given the grace period of the spring semester to achieve a semester 2.0 GPA. If that is not achieved, the student is academically dismissed.

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 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 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
- 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. Denials can be appealed to the Admissions and Guidance Committee.

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 Gender Equity Coordinator at 714-564-6150.

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.



- 2. If the issue is not resolved and the student believes that the grade is based on mistake, fraud, bad faith, or incompetency (EC 76224), he/she may appeal in writing to the Dean. Such an appeal must be made within a one year period following the semester in which the grade was assigned. Forms for the written appeal may be found in any instructional Dean's office or the Student Services Office of the college.
- 3. The student may be requested to set-up an appointment with the appropriate Dean to discuss the written grievance.
- 4. The appropriate Dean will review the allegations with the instructor.
- 5. The Dean will review the issue and will notify the student and instructor in writing of his/her decision.
- 6. The decision of the 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.

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 12th week of instruction (or 75 percent of a term, whichever is less) and receive a transcript symbol of "W".

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

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



STUDENT CODE OF 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 association's policies and procedures. This includes, but is not limited to, students enrolled in the programs of Cosmetology, Fire Academy, Criminal Justice Academy, Nursing, and Apprenticeship.

GUIDELINES FOR STUDENT CONDUCT

In compliance with the California Education Code (Sections 48922, 66017, 66300, 76020, 76021, 76030, 76043, 76120, 76130, 76131, and 87014) and in keeping with the above. RSCCD guidelines for student conduct are listed below.

- 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 districtsponsored 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.

Academic Honesty Policy Information

Introduction

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

Procedures

In cases where a violation of academic honesty is discovered, the faculty member is encouraged to file an "Academic Misconduct Incident Report" form and distribute the form to the appropriate offices listed.

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

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



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 39 (Plan B) or the Intersegmental Transfer Curriculum "IGETC" listed on page 40 (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

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 four AA-T degrees: Communication Studies, 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. Pleae see additional information on page 50.

Certificate 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 programs leading to immediate employment are listed on page 35. 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 any Rancho Santiago Community College District college.



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

D = AA/AS Degree C = CertificateCA = Certificate of Achievement PROGRAM **PROGRAM** ** ACCOUNTING D С CA **GEOLOGY** D **ANTHROPOLOGY** D **HISTORY** D ** ART D С CA ** HUMAN DEVELOPMENT (CHILD DEVELOPMENT) D CA ** ART-DIGITAL MEDIA ARTS D С CA IGETC (PLAN C) CA ART-3D ANIMATION CA INTERNATIONAL BUSINESS D CA ** AUTOMOTIVE TECHNOLOGY ** KINESIOLOGY D CA D С BIOLOGICAL SCIENCE D LIBERAL ARTS D **BLACK STUDIES** LIBRARY TECHNOLOGY CA D D ** MANAGEMENT **BUSINESS ADMINISTRATION** D D С CA ** BUSINESS APPLICATIONS AND TECHNOLOGY D С CA ** MANUFACTURING TECHNOLOGY D С CA ** BUSINESS MANAGEMENT D ** MARKETING D С **ENTREPRENEURSHIP** D MATHEMATICS D CA **CHEMISTRY** D MEDICAL ASSISTANT D CA CHICANO STUDIES D MODERN (FOREIGN) LANGUAGES D ** COMMUNICATIONS AND MEDIA STUDIES D CA MUSIC D DIGITAL MUSIC PRODUCTION С **COMMUNICATIONS STUDIES** D ** NURSING COMMUNITY SOCIAL SERVICES D D ** COMPUTER INFORMATION SYSTEMS D С CA ** NUTRITION AND DIETETICS D С COMPUTER SCIENCE D CA OCCUPATIONAL THERAPY ASSISTANT D ** CRIMINAL JUSTICE D С CA PARALEGAL D CA CSU GE BREADTH (PLAN B) CA PHARMACY TECHNOLOGY D CA ** DANCE D CA **PHILOSOPHY** D ** DIESEL / HEAVY EQUIPMENT TECHNOLOGY D С CA **PHOTOGRAPHY** D CA D CA **PHYSICS** D DRAFTING TECHNOLOGY (ENGINEERING) **ECONOMICS** D D POLITICAL SCIENCE **ELEMENTARY EDUCATION (PRE-PROFESSIONAL)** D **PSYCHOLOGY** D **ENGINEERING** D **SCIENCE** D ** ENGINEERING TECHNOLOGY SIGN LANGUAGE D С CA CA **ENGLISH** D SOCIAL SCIENCE D ETHNIC STUDIES D SOCIOLOGY D FAMILY / CONSUMER STUDIES (HOME ECONOMICS) D SPEECH-LANGUAGE PATHOLOGY ASSISTANT D ** TELEVISION / VIDEO COMMUNICATIONS ** FASHION DESIGN / CUSTOM CLOTHING D CA D С CA ** FASHION MERCHANDISING ** THEATRE ARTS D D CA ** FIRE TECHNOLOGY D С CA WELDING TECHNOLOGY D CA

WOMEN'S STUDIES

D

D

GEOGRAPHY

^{**}See current SAC catalog for additional options under these titles.



GENERAL EDUCATION REQUIREMENTS FOR THE ASSOCIATE DEGREE

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:

- The ability to comprehend and communicate ideas logically, creatively, correctly, and effectively in speaking and writing.
- Skills in creative and critical thinking, including analysis, synthesis, evaluation, problem-solving, decision-making, and quantitative reasoning.
- The skills necessary to identify informational needs; seek, access, evaluate and apply information effectively, using print materials and technology creatively, effectively and responsibly.
- 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.
- The basic skills necessary for lifelong learning, fitness, creative expression, aesthetic appreciation, personal growth, interpersonal skills and development of intellectual curiosity.
- Acquisition of the knowledge and skills necessary in chosen disciplines and careers.

NOTE: See Plan A, page 38 for specific course requirements.

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: 2012-2013

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 and at least 6 of those units must be in courses required for the major. 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

- 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
- Successful completion of any Reading course at the 100 level or above, OR
- 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

- Completion of Mathematics 080/081 or any other 3 unit mathematics course numbered above the level of 080/081, OR
- 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 101H (Interpersonal Communication), Communication Studies 102 (Public Speaking), Communication Studies 140 (Argumentation and Debate), Communication Studies 145 (Group Dynamics), Communication Studies 152 (Oral Interpretation).

Petition for Graduation and Catalog Rights:

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

NOTE: Transcripts from all colleges attended must be on file.



GENERAL EDUCATION REQUIREMENTS FOR THE ASSOCIATE DEGREE

Plan A: 2012-2013

NOTE: See page 37, for specific requirements for the following:

- IV. A. Reading Proficiency
 - B. Mathematics Proficiency
- **Oral Communication Requirement**

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

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

II. Required General Education Courses

A. Natural Sciences (minimum 3 units) Anthropology 101, 101L Astronomy 109, 110 or 110H, 140 Biology 109 or 109H/109L, 115, 149, 177, 200, 211, 239, 259 Chemistry 109, 119, 209, 210, 219 or 219H Earth Science 110 or 110H, 115, 150 or 150H Environmental Studies 140, 200, 259 Geography 101, 101L

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 120H, 121 or 121H, 122 Political Science 101 or 101H
- 2. Social Science Elective (minimum 3 units)

Anthropology 100 or 100H Criminal Justice 101 Economics 120, 121 Geography 100 or 100H, 102 or 102H History 101 or 101H, 102 or 102H Human Development 107, 110 Political Science 101 or 101H Psychology 100 or 100H Sociology 100 or 100H

C. Humanities (minimum 3 units)

Anthropology 104 or 104H Art 100 or 100H, 101, 102, 105, 110 Communicatioins and Media Studies 103, 111 Dance 100 or 100H. 105 English 104 or 104H Foreign Language: Chinese 101, 102 French 101, 102, 201 or 201H, 202 or 202H Japanese 101, 102 Spanish 101 or 101H, 102 or 102H, 195 A. 195B, 201 or 201H, 202 or 202H Vietnamese 101, 102 Interdisciplinary Studies 121, 200

Kinesiology, Professional 170

Literature:

Communications and Media Studies 110 English 102 or 102H, 231, 232, 233ABCD, 241, 242, 270, 271, 272 Music 101 or 101H, 102 or 102H, 104, 110, 211 Philosophy 106 or 106H, 108, 112, 118

Sign Lannguage 110, 111, 112, 116 Television/Video Communications 101, 103, 104, 105 or 105H

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 206H English 104 or 104H Ethnic Studies 101 or 101H, 102 or 102H History 123, 124 or 124H, 125, 127, 146, 150, 151, 153, 163, 181 **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 100H Business 106 or 106H Criminal Justice 209 Dance 105 English 271, 272 Geography 100 or 100H, 102 or 102H Interdisciplinary Studies 117H Kinesiology, Professional 150 Music 102 or 102H 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 101H with a grade of "C" or hetter

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 102H, 103 or 103H Mathematics 080/081, 105, 140, 145, 150, 160, 170, 180 or 180H, 185, 219 or 219H, 280, 290, 295 Philosophy 110 or 110H, 111, 144

Reading 102, 150 Social Science 219 or 219H

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 Family & Consumer Studies 120 Fashion Design Merchandising 103 Human Development 102, 107 Interdisciplinary Studies 111, 155 Kinesiology, Health Education 101, 102, 104, 120 Kinesiology, Professional 125, 140, 160 Library & Information Studies 100 Mathematics 030 Nutrition & Food 115 or 115H Philosophy 111 Psychology 140, 230 Sociology 112

2. Completion of one of the following:

Kinesiology, Activities 107, 123, 130, 132, 133, 134, 140, 141, 150, 155, 160, 169, 170, 171, 180, 185, 200, 202, 210, 211, 220, 226, 227, 231, 232, 235, 236, 240, 245, 260, 261, 262, 265, 270, 271, 280, 281, 290, 291, 292 Kinesiology, Adapted Activities 201, 202, 205, 206, 208, 211, 220 Kinesiology, Aerobic Fitness 140, 143, 144, 146, 150, 155, 156, 157, 158, 160 Kinesiology, Aquatics 201, 204, 206, 207 Kinesiology, Fitness 100, 101, 102, 103, 108, 109, 110, 115, 116, 119, 120, 124, 125, 126, 127, 128, 145, 147

Dance 102, 201A, 201B, 206A, 206B, 219A, 219B

Kinesiology, Intercollegiate Athletics 201, 202, 203. 204, 205, 206, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222 Kinesiology, Professional 155, 165, 175, 180, 200

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



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

Plan B: 2012-2013

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

- 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
- 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.
- 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.
- 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.
- 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 2012 and are valid through Summer 2013.

TRANSFER CREDIT

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

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,

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

Scientific Inquiry and Quantitative Reasoning

(minimum 9 semester/12 quarter units)

The 9 units selected from this area must include at least one course each from B1, B2, and B4. The 9 units must also include a corresponding lab component. (Lab classes are in bold.) Courses in B4 must be completed with a grade of "C" or better. (C minus is not acceptable.)

B1: Physical Science

Astronomy 109, 110 or 110H Chemistry 109, 115, 119, 209, 210, 219 or 219H Earth Science 110 or 110H, 115, 150 or 150H

Environmental Studies 140

Geography 101

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, 115, 139, 149, 177, 211, 212,

214, 229, 239, 259

Environmental Studies 259

B3: Laboratory Activity Anthropology 101L

Astronomy 140
Biology 109L, 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, 170, 180 or 180H, 219 or 219H

Social Science 219 or 219H

Arts and Humanities

(minimum 9 semester/12 quarter units) This area must include one course from C1 and one course

from C2.

C1: Arts: Art, Cinema, Dance, Music, Theatre Art 100 or 100H, 101, 102, 103, 104, 105, 106, 108 Dance 100 or 100H, 102,105 English 233A, 233B, 233C, 233D

Interdisciplinary Studies 121 Music 101 or 101H, 102 or 102H, 103, 104, 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 102H, 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 202H History 101 or 101H, 102 or 102H, 150, 151, 153, 163

History 101 or 101n, 102 or 102n, 150, 15 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 201H, 202 or 202H

Vietnamese 101, 102

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 100H, 103, 104 or 104H, 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 102H 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 100H, 102 or 102H

D6: History

Anthropology 105, 125

History 101 or 101H, 102 or 102H, 105, 118, 120 or 120H, 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 101 or 101H, 200 or 200H, 201, 220,

226, 235 D9: Psychology

Human Development 107 Psychology 100 or 100H, 140, 157, 170, 200, 219, 230, 240,

250 Sociology 240

D10: Sociology and Criminology

Criminal Justice 101 Sociology 100 or 100H, 112, 140 or 140H

NOTE: The CSU graduation requirement in UNITED STATES HISTORY. CONSTITUTION AND AMERICAN IDEALS may be

met by completing Political Science 101 or 101H and one U.S. History course from the following: History 118, 120 or 120H, 121 or 121H, 122, 123, 124 or 124H, 127, 146. These courses (in **bold** in D6 above) may also be used to meet 6 of the 9 Area D unit requirements.

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.

Communication Studies 104

Counseling 100, 116, 120, 124, 125, 128

Family & Consumer Studies 120 Human Development 107, 229

Interdisciplinary Studies 155

Kinesiology, Health Education 101, 102, 104, 120

Kinesiology, Professional 125

Nutrition and Food 115 or 115H

Psychology 140, 157, 230 Sociology 112

Kinesiology, Activities 107, 130, 132, 140, 150, 155, 160, 169, 170, 180, 185, 200, 202, 210, 220, 226, 235, 240,

245, 260, 265, 270, 280, 290, 292 Kinesiology, Adapted Activities 201, 202, 205, 206, 208, 211, 220 Kinesiology, Aerobic Fitness 140, 143, 144, 150, 155, 156, 158, 160

Kinesiology, Aquatics 201, 204, 206 Kinesiology, Fitness 100, 101, 102, 110, 115, 116, 120, 124,

125, 126, 127, 128, 145, 147 Kinesiology, Intercollegiate Athletics 201, 202, 203, 204, 205, 206, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222



INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)

Plan C: 2012-2013

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

- 1. It is generally recommended that students complete all the listed requirements for IGETC prior to transferring. Students may obtain partial certification however by completing all but 1-2 courses. Consult a counselor for additional information.
- 2. Complete all courses used for IGETC certification with a minimum grade of C (C minus is not acceptable). A "credit" is acceptable providing it is equivalent to a grade of C or higher. The catalog must reflect this policy.
- Request certification from the last California community college 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 2012 and are valid through Summer 2013.

AREA 1 - ENGLISH COMMUNICATION

C.S.U.: 3 courses required, one from each group.
U.C.: 2 courses required, one each from Group A and B.

Group A: English Composition

1 course, minimum 3 semester/4-5 quarter units. English 101** or 101H**

Group B: Critical Thinking-English Composition

1 course, 3 semester/4-5 quarter units. English 102** or 102H** (102 and 102H not accepted in 1B if completed prior to Fall 2011)

English 103** or 103H** Philosophy 110** or 110H**

Group C: Oral Communication (CSU ONLY)

1 course, 3 semester/4-5 quarter units Communication Studies 102, 103** or 103H**, 140, 145

AREA 2A - MATHEMATICAL CONCEPTS & QUANTITATIVE REASONING

1 course, 3 semester/4-5 guarter units. Math 105, 140**, 145, 150**, 170**, 180** or 180H**, 185, 219** or 219H**, 280; Social Science 219** or 219H**

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 100H**, 101, 102, 103, 104, 105, 106, 108
Dance 100** or 100H**, 102, 105 Interdisciplinary Studies 121

Music 101** or 101H**, 102** or 102H**, 103, 104, 111, 211

Photography 150

Television/Video Communications 103, 104 Theatre Arts 100, 105

Group B: Humanities (minimum 1 course)

Chinese 102

English 102** or 102H**, 206, 220, 231, 232, 233A or 233B or 233C or 233D, 241, 242, 243, 245, 246, 271, 272, 278

French 102, 201** or 201H**, 202** or 202H** History 101** or 101H**, 102** or 102H**, 150, 151, 153, 163*

Interdisciplinary Studies 200 Japanese 102

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

Sign Language 111, 112, 116

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

Vietnamese 102

AREA 4 - SOCIAL & BEHAVIORAL SCIENCES

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

Anthropology 100** or 100H**, 103, 104** or 104H**, 105, 125

Asian American Studies 101

Biology 200

Black Studies 101

Chicano Studies 101

Communication Studies 206** or 206H**

Communications and Media Studies 111

Criminal Justice 101

Economics 120, 121

English 104** or 104H**

Environmental Studies 200

Ethnic Studies 101** or 101H**, 102** or 102H**

Geography 100** or 100H**, 102** or 102H**

History 105, 118, 120** or 120H**, 121** or 121H**, 122**, 123, 124** or 124H**, 125, 127, 133, 146, 163*, 181

Human Development 107**

Interdisciplinary Studies 117H, 155

Political Science 101** or 101H**, 200** or 200H**, 201,

Psychology 100** or 100H**, 140, 157**, 170, 200, 219, 230,

240, 250 Science 200

Sociology 100** or 100H**, 140** or 140H**, 240

TV/Video Communications 105** or 105H**

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 110H** 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**, 227**, 237**, 279**, 289**

Group B: Biological Science (1 course)

Anthropology 101

Biology 109** or 109H**, 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***:

ΛR

completion of one of the following: Chinese 101, French 101, Japanese 101, Sign Language 110, Spanish 101** or 101H**, or Vietnamese 101;

0R

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;

0R

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

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 101H** AND one of the following courses: History 118, 120**, 120H**, 121**, 121H**, 122**, 123, 124**, 124H**,

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

- Courses designated with an asterisk may be counted in one area only.
- Indicates that transfer credit may be limited by either UC or CSU or both. Please see page 46 for additional information.
- High School transcript must be on file in the admissions office. Please consult with a counselor for additional information.



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 filling 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 46 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 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 Fullerton, College of Business and Economics California State University Stanislaus Chapman University La Sierra University Occidental College Pacific University (Oregon) Pitzer College Pomona College San Diego State University University of California Irvine University of California Los Angeles University of California Riverside University of California Santa Cruz Whitman College (Washington State)

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 (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

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 39 of the catalog for GE Plan B) or the Intersegmental General Education Transfer Curriculum (see page 40 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 43.

Associate in Arts for Transfer (AA-T) or Associate in Science for Transfer (AS-T)

See information on page 50.



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:

- 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.
- 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 40 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; 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

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.



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 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 workstudy 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) may be submitted in January for the following academic year. Filing instructions and deadlines are indicated on the web site www.fafsa.ed.gov. 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 Art
- · 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
- 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
- Patten University
- Pepperdine University
- Pitzer College
- Point Loma Nazarene University
- Pomona College
- Saint Mary's College of California
- Samuel Merritt College
- San Diego Christian College
- San Francisco Conservatory of Music
- Santa Clara University
- Saybrook University
- Scripps College
- Simpson University
- Soka University of America
- Southern California University of Health Sciences
- Stanford University
- Thomas Aquinas College
- Touro University
- 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 of Southern California
- 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 Upper Division Requirements and these are completed after transfer.) In developing a program for transfer, first consideration in most cases should be given to completing the courses required in the transfer major or as preparation for the major. Note that these requirements may differ from major requirements for the associate degree.

Below is a <u>partial</u> 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.

Anthropology Art/Art History Astronomy

Behavioral Sciences Biology/Biochemistry

Black Studies

Botany Business Adm

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

Geography Geology Graphic Design Health Science History

Hotel/Restaurant Management

Human Development Human Services Humanities Industrial Engineering International Business International Studies Kinesiology

Liberal Studies Linguistics Mathematics

Mechanical Engineering

Meteorology Microbiology Modern Languages Music/Musicology

Nursing

Nutrition & Dietetics/Food Science

Occupational Therapy* Oceanography* Philosophy Physical Education/Exercise Science

Physical Therapy*

Physics

Political Science
Pre-Chiropractic
Pre-Dentistry*
Pre-Law*
Pre-Medicine*
Pre-Optometry*
Pre-Pharmacy*

Pre-Veterinary Medicine*

Psychology

Public Administration Radio/Television/Film Religious Studies Social Ecology Social Work Sociology

Teaching** Theater Arts/Drama

Urban Studies Women's Studies

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 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 2012-2013**

This agreement lists courses transferable for unit credit at all UC campuses. This list is valid for courses completed during Fall 2012, Spring 2013 and Summer 2013. Additional courses for 2012-2013 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, 100H, 101, 102, 103, 104, 105, 106, 108, 110, 111, 130, 131, 132A, 132B, 140A, 140B, 141, 143, 150, 151, 152, 153, 154†, 155, 156, 157, 158, 159A, 159B, 195⁴, 230, 231, 232, 233, 234, 234H, 240, 241, 242, 243, 251, 252

ASIAN AMERICAN STUDIES

ASTRONOMY

109, 110, 110H, 140

BIOLOGY

- *109, *109H, 109L, 115¹, 129, **139¹, 177, 200, 211, 212, 214, **229, 239, 249, 259
- * No credit for 109 or 109H if taken after 211
- ** 139 and 229 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†

CHEMISTRY

- *109, 115*, *119, *209, 210⁴, 219, 219H, 229, 249, 259
- 109, 119, and 209 combined, maximum credit, one course

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

CHICANO STUDIES

101

CHINESE

101, 102

COMMUNICATION STUDIES

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

COMMUNICATIONS AND MEDIA STUDIES

103¢, 110¢, 111*

COMPUTER SCIENCE

100, 105, 111, 112, 120†, 121, 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, ~109, 110, 111, 112, 113A, 113B, 115A, 115B, 116, 117, 118, 119A, 119B, 120, 121, ~ 122, 123, 124, 130, 140, 201A, 201B, 202A, 202B, 204A, 204B, 205, 206A, 206B, 209, 210, 213, 214, 215A, 215B, 216, 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‡, 150, 150H
- * 110 combined with 110H, Geography 101 or Geology 101, maximum credit, one course
- ** No credit for 115 if taken after 110, Geography 101 or Geology 101.

ECONOMICS

120, 121

EDUCATION

100 (formerly 101[^]), 210

ENGINEERING

100A (formerly 148), 122, 124, 125, 165¢, 183, 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

*110, *112

* Any or all of these courses combined, maximum credit. 8 units

ENVIRONMENTAL STUDIES

140, 200, 259

ETHNIC STUDIES

101, 101H, 102, 102H

FASHION DESIGN MERCHANDISING

104

FRENCH

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

* Corresponds to two years of high school study

GEOGRAPHY

100, 100H, *101, 101L, 102, 102H

101 combined with Earth Science 110, 110H. Geology 101, maximum credit, one course

GEOLOGY

*101, 101L, 140, 150, 150H, 201

* 101 combined with Earth Science 110, 110H, Geography 101, maximum credit, one course

HISTORY

101, 101H, 102, 102H, 105, 118, 120, 120H, 121, 121H, *122, 123, 124, 124H, 125, 127, 128H, 133, 146, 150, 151, 153, 163¹, 181

* No credit for 122 if taken after 120/120H 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

KNAF ~140, ~143, ~144, ~146,~150, ~155, ~156, ~157^, ~158, ~160;

KNAC ~107, ~123, ~130, ~132, ~133, ~134, ~140, ~141, ~150, ~155, ~160, ~169, ~170,

~171, ~180, ~183^, ~184^, ~185, ~200,

~202, ~210, ~211, ~220, ~226, ~227, ~231,

~232, ~235, ~236, ~240, ~245, ~260, ~261,

~262, ~265, ~270, ~271, ~280, ~281, ~290, ~291, ~292;

KNAD ~201, ~202, ~205, ~206, ~208, ~211, ~220;

KNAQ ~201, 204, ~206, ~207†

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.



KNFI ~100, ~101, ~102, ~103¢, ~108, ~109, ~110, ~115, ~116, ~119, ~120, ~124, ~125, ~126, ~127, ~128, ~145, ~147;

KNHE **101, **102, **104, ***105, ***107; KNIA ~201, ~202, ~203, ~204, ~205, ~206, ~208, ~209, ~210, ~211, ~212, ~213, ~214, ~215, ~216, ~217, ~218, ~219, ~220, ~221, ~222;

KNPR +121, +122, +123† +155, +165, +175, +180, +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, **180H, 185, 203, 219, 219H, 280, 287†

- * 140 and 170 combined, maximum credit, one course
- ** 150, 180, and 180H 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^{*}, 160, 161, 162, 163, 164A, 164B, 165, 168, 169, 170, 171, 173#, 175, 176, 177, 178, 179, 180, 181, 185, 186, 187, 188, 189, 211, 213, 214, 215A, 216, 217, 241, 271¢

* 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, 293≤

PHYSICAL SCIENCE

115, *117, *118

* No credit for 117, 118 if taken after a college course in Chemistry or Physics

PHYSICS

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

- * No credit for 109 if taken after 217 or 279
- ** 210, 211, or 217, 227, 237, or 279, 289 combined, maximum credit, one series, deduct credit for duplication of topics

POLITICAL SCIENCE

101, 101H, 200, 200H, 201, 220, 235*

PSYCHOLOGY

100, 100H, 140, *157, 170, 200, 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, 201H, 202, 202H, 212, 213

* Corresponds to two years of high school study

SPEECH LANGUAGE PATHOLOGY ASSISTANT

119#, 160

TELEVISION/VIDEO COMMUNICATION

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

THEATER ARTS

100, 105*, 110, 111, 113, 118, 131, 132, 133, 135, 150, 151*, 152¢, 153*, 154*,155*, 156†, 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)
- New addition to the list effective Fall 2003 (UC credit not granted for course taken prior to Fall 2003)
- 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)
- † 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)
- * New addition to the list effective Fall 2011 (UC credit not granted for course taken prior to Fall 2011)

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.

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.





COLLEGE CREDIT INSTRUCTIONAL PROGRAMS

Programs of study leading to the certificate or the associate degree or certification in specialized vocational areas are alphabetically arranged.

Programs which lead to transfer to universities and four-year colleges do not necessarily reflect the transfer requirements of specific schools. If the student wishes to receive an associate degree in a specific discipline, the requirements as set forth must be met. However, in planning a program for transfer, it should be noted that the transfer requirements for both the major and general education vary widely. Hence it is recommended that the student review the catalog of the school of transfer and consult with the counseling staff of Santa Ana College in planning transfer objectives.





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 four AA-T degrees: Communication Studies, 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.

Requirements

The following is required for all AA-T or AS-T degrees:

- 1. Minimum of 60 CSU-transferable semester units.
- 2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major as detailed in the College Credit Instructional Programs section of the catalog. All courses in the major must be completed with a grade of C or better or a "P" if the course is taken on a "pass-no pass" basis (title 5 § 55063).
- Certified completion of the California State University General Education-Breadth pattern (CSU GE Breadth, "Plan B") (see page 39 for more information); OR the Intersegmental General Education Transfer Curriculum (IGETC, "Plan C") pattern (see page 40 for more information).



ACCOUNTING DEGREE AND CERTIFICATES

The associate degree and certificate curriculum in accounting prepares students for entry-level positions and promotional opportunities in accounting, taxation and administrative departments of businesses in public and private sector areas such as manufacturing, merchandising, financial service, wholesale trades, and government. Specialized training in accounting and finance principles and practices enables students to maintain accounting records and develop financial reports and make effective use of financial information for analysis and decision-making. Entry-level employment opportunities include positions in accounting and a number of trainee positions. Promotional opportunities include higher-level responsibilities in these areas and the areas of general ledger, financial statement preparation and financial statement analysis.

Accounting Degree (sac.acct.aa)

Core Courses for the associate in arts or science degree:

Course	Inits
Accounting 101, Financial Accounting	4
Accounting 102, Managerial Accounting	4
Accounting 104, Federal & California Taxes	4
Select ONE course from the following: Accounting 160, Computerized Accounting with MAS 90® – Part 1 Core Modules (3) OR—	3-4
Accounting 170, Microsoft Dynamics for Financial Accounting – Core Modules (4)	
Select ONE course from the following:	
Business 222, Business Writing (3)	3
Management 122, Business Communications (3)	
Select a minimum of THREE units from the following elective	s: 3
Accounting 105, Intermediate Federal and California Taxes (4)	
Accounting 108, Tax Practices and Procedures (3)	
Accounting 113, Intermediate Income Taxes – Corporations (2)	
Accounting 114, Intermediate Income Taxes – Partnerships & LLC	s (2)
Accounting 124, Computerized Income Tax Preparation (1)	
Accounting 150, Governmental and Nonprofit Accounting (3)	
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)	

Students intending to obtain a bachelor's degree in Accounting are advised to meet with a counselor, and to also look at the Business Administration 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 above and taking Business 150, Introduction to Computing & Application Software to meet the Associate Degree requirements for computer skills and knowledge.

Total 21-22

General Accounting (sac.acctg.ca)

Requirements for the certificate:

Core Courses for the certificate:	Units
Accounting 101, Financial Accounting	4
Accounting 102, Managerial Accounting	4
Select ONE of the following:	
Business 150, Introduction to Information Systems and	
Applications (3)	3-4
—OR— Business Applications 179, Introduction to Microsoft Office (4	1)
Select ONE of the following:	.)
Management 122, Business Communications (3)	
—OR—	3
Business 222, Business Writing (3)	
Select a minimum of THREE units from the following election	ves: 3
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 107, Accounting Skills Development (1-6)	
Accounting 108, Tax Practices and Procedures (3)	
Accounting 113, Intermediate Income Taxes – Corporations (2	
Accounting 114, Intermediate Income Taxes – Partnerships & L	LCs (2)
Accounting 124, Computerized Income Tax Preparation (1)	
Accounting 150, Governmental and Nonprofit Accounting (3)	
Accounting 160, Computerized Accounting with MAS 90® –	
Part 1 Core Modules (3)	_
Accounting 170, Microsoft Dynamics for Financial Accounting Core Modules (3)	<i>)</i> –
Accounting 204, Managerial Cost Accounting (3)	
Accounting 205, Intermediate Accounting (3)	
Business 100, Fundamentals of Business (3)	
Business Applications 188, Microsoft Excel (1.5)	
Business Applications 189, Microsoft Excel (1.5)	
Total	17-20

COMPUTERIZED ACCOUNTING CERTIFICATES

Computerized Accounting-QuickBooks Option (sac.acctq.ca)

Take all of the following courses:	Units
Accounting 035, QuickBooks	2
Accounting 101, Financial Accounting	4
Business 150, Introduction to Information Systems and Applicat	ions 3
Select ONE of the following courses:	_
Management 122, Business Communications (3)	3
Business 222, Business Writing (3)	
Select a minimum of 2.5 units from the following electives:	2.5
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)	

Total 14.5



Computerized Accounting-MAS 90® Option (sac.acctm.ca)

Select ONE of the following courses:	Units
Accounting 160, Computerized Accounting with MAS 90® –	
Part 1 Core Modules (3)	
—OR—	3
Accounting 161, Computerized Accounting with MAS 90® –	
Part 2 Operations Modules (3)	
Take the following courses:	
Accounting 101, Financial Accounting	4
Business 150, Introduction to Information Systems and Applica	ations 3
Select ONE of the following courses:	
Management 122, Business Communications (3)	
-OR-	3
Business 222, Business Writing (3)	
Select a minimum of 2.5 units from the following electives	2.5
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)	
Total	15.5

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	4
Select ONE of the following courses:	3-4
Accounting 010, Accounting Procedures (3) OR—	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)	J
Business 222, Business Writing (3)	
Select a minimum of 1 unit from the following electives:	
Accounting 124, Computerized Income Tax Preparation (1)	1-1.5
Business Applications 188, Microsoft Excel (1.5)	1 1.5
Business Applications 189, Microsoft Excel (1.5)	
Total	1/1-15

Computerized Bookkeeping-MAS 90® Option (sac.acctbm.ca)

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, Computerized Accounting with MAS 90® -	
Part 1 Core Modules (3)	
-OR-	3
Accounting 161, Computerized Accounting with MAS 90® –	
Part 2 Operations Modules (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)	0
Business 222, Business Writing (3)	
Select a minimum of 1 unit from the following courses:	
Accounting 124, Computerized Income Tax Preparation (1)	1-1.5
Business Applications 188, Microsoft Excel (1.5)	1 1.5
Business Applications 189, Microsoft Excel (1.5)	
Total	15-16

Accounting and Financial Planning (sac.acctf.cert)

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

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	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	4
Accounting 170, Microsoft Dynamics for Financial Accounting – Core Modules	4
Accounting 171, Microsoft Dynamics for Financial Accounting – Operations and Analysis	4
Business 150, Introduction to Information Systems and Applicat	ions 3
Total	15

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	4
and Management	
Business 150, Introduction to Information Systems and Applicat	ions 3
Total	15

AMERICAN SIGN LANGUAGE CERTIFICATE (sac.sign.ca)

(Formerly: Sign Language Education Certificate SAC 0995)

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 —OR —	3
Psychology 157, Introduction to Child Psychology	
Total	24

Recommended electives: Speech Language Pathology Assistant 160.

ADMINISTRATION OF JUSTICE

(See Criminal Justice)

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	nits
Anthropology 100, Introduction to Cultural Anthropology OR OR OR	3
Anthropology 100H, Honors Introduction to Cultural Anthropology	
Anthropology 101, Introduction to Physical Anthropology	3
Anthropology 103, Introduction to Archeology	3
*Anthropology 104, Language & Culture —OR—	3
*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 OR—	3
Ethnic Studies 101H, Honors Introduction to Ethnic Studies	
Geography 100, World Regional Geography OR	3
Geography 100H, Honors World Regional Geography	
Geography 102, Cultural Geography OR —	3
Geography 102H, Honors Cultural Geography	
History 101, World Civilizations to the 16th Century OR OR OR	3
History 101H, Honors World Civilizations to the 16th Century	
Interdisciplinary Studies 117H, Honors Introduction to Global Studies	3

Psychology 100, Introduction to Psychology OR	3
Psychology 100H, Honors Introduction to Psychology	
Sociology 100, Introduction to Sociology —OR —	3
Sociology 100H, Honors Introduction to Sociology	
Women's Studies 101, Introduction to Women's Studies	3

Category B

If your emphasis is physical anthropology consider category B:

Anthropology 101L, Physical Anthropology Laboratory	1
Anthropology 107, Introduction to Forensic Anthropology	3
Biology 109, Fundamentals of Biology OR OR	3
Biology 109H, Honors Fundamentals of Biology	
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 104H.

**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 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	
—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 124, Gallery Production	2
Art 130, Introduction to Drawing	3
Art 131, Beginning Life Drawing	3
Art 141, Beginning Painting	3
Electives	3
Total	32

Electives are to be selected from the following:

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



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		2
Art 285, Introduction to Enameling–Jewelry		2
	Total	19

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		
Art 253, Electric Kiln Ceramics		3
	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	33

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 105H.

Degree Program B-Transfer to state university

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

Plus a minimum of 3 units from the following electives: Art 009, 010, 122, 123, 132A, 140A, 195, 198, 221, 230, 298; Communications 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	1.5
for Television	
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	
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	25.5

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	5
Total	28

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		3
Art 196A, 3-D Modeling		5
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	3
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	3
for the Web	
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		3
Art 100H, Honors Introduction to Art Concepts		· ·
Art 110, Two-Dimensional Design		3
Art 162, Digital Design with Photoshop-I		3
Art 195, Introduction to Digital Media Arts		3
	Total	12



Digital Media Arts Certificate A-Graphic 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
Total	20

Digital Media Arts Certificate B-Web Design Emphasis (sac.artdw.ca)

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

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.

Major requirements for the associate in arts or science degree:

Course	Units
Automotive Technology 002, Essentials (3 units)	
Automotive Technology 006, Automotive Maintenance (4 units)	3-4
Plus 25 units selected from the following:	
Automotive Technology 003, Introduction to Diesel/Hybrid Vehic	
Automotive Technology 008, Oxyacetylene-Arc Welding	3 5
Automotive Technology 022, Electronics Fundamentals	5
Automotive Technology 024, Electrical Systems	5
Automotive Technology 025, A-6 Alternative Course-	
Electrical Systems	<u>2</u> 5
Automotive Technology 032, Tune-Up	5
Automotive Technology 033, A-8 Alternative Course-	2
Engine Performance	
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	e 4.5
Automotive Technology 076, Engine Repair	4.5
Automotive Technology 080, Computer Controls	3
Automotive Technology 081, Fuel Injection Systems	3 3 3
Automotive Technology 082, Automotive Computer Sensors	
Automotive Technology 083, Automotive Lab Scopes	3
Automotive Technology 084, OBD II	3
Automotive Technology 085, Basic Clean Air Car Course	5
Automotive Technology 086, Advanced Clean Air Car Course	2
Automotive Technology 087, L-1 Alternative Course-	
Advanced Engine	2
Total	28-29

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:

Course	Units
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
Total	15

Chassis Service Option Certificate (sac.autcs.ca)

The certificate curriculum in chassis service is designed to prepare the student for entry into the specialized field of: brake, front suspension and steering service on both import and domestic vehicles.

Major requirements for the certificate:

Course	Units
Automotive Technology 002, Essentials (3 units)	3-4
Automotive Technology 006, Automotive Maintenance (4 units)	
Automotive Technology 008, Oxyacetylene-Arc Welding	3
Automotive Technology 053, Brakes	4.5
Automotive Technology 054, Front Ends	4.5
Total	15-16

Drive Train Service Option Certificate (sac.autdt.cert)

The certificate curriculum in drive train service is designed to prepare the student for entry into the specialized field of standard and automatic transmissions, driveline and differential service and repair on both import and domestic vehicles.

Major requirements for the associate degree and certificate:

Course	Units
Automotive Technology 002, Essentials (3 units)	3-4
Automotive Technology 006, Automotive Maintenance (4 units)	
Automotive Technology 008, Oxyacetylene-Arc Welding	3
Automotive Technology 043, Automatic Transmission Service	4
Automotive Technology 044, Power Train Service	4
Total	1/1_15

Engine Performance and Electrical Option Certificate (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)	0.4
Automotive Technology 006, Automotive Maintenance (4 units) —AND —	3-4
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 Certificate (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)	
—OR — Automotive Technology 006, Automotive Maintenance (4 units)	3-4
—AND —	
Automotive Technology 008, Oxyacetylene-Arc Welding	3
Automotive Technology 072, General Automotive Engine Service	e 4.5
Automotive Technology 076, Engine Repair	4.5
Total	15-16

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 —OR—	5
Biology 290, Biochemistry and Molecular Biology	_
Chemistry 219, General Chemistry —OR—	5
Chemistry 219H, Honors General Chemistry	_
Chemistry 229, General Chemistry & Qualitative Analysis	5
Total	25

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

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

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

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	Units
Accounting 101, Financial Accounting	4
Accounting 102, Managerial Accounting	4
Business 150, Introduction to Information Systems and Applica	ations 3
Business 222, Business Writing	3
Economics 120, Principles/Macro	3
Economics 121, Principles/Micro	3
Select one of the following	3
Business 101, Business Law* (see note) (3)	
Business 105, Legal Environment of Business* (3)	
Select one of the following courses** (see note):	3-4
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)	
*Okuslanda urlamaina famuusiususitus turanafam alaasilal la a suurus tla	

*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.



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 OR OR OR	3
Business Applications 120, Administrative Office Management	
Business Applications 035, Computer Fundamentals	1.5
Business Applications 115A, Computer Keyboarding Speed &	1
Accuracy Development I	
Business Applications 147, Introduction to Windows	1.5
Business Applications 179, Introduction to Microsoft Office	4
Business 080, Business Mathematics	3
Total	17

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

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

Course	nits
Business Applications and Technology Degree Core Requirements	s 17
Select 6 units from the following courses:	6
Business Applications 160, Microsoft Publisher (3)	
Business Applications 180, Advanced Microsoft Office (3)	
Business Applications 183, Microsoft Word (3)	
Business Applications 188, Microsoft Excel(1.5)	
Business Applications 189, Excel - Application Projects (1.5)	
Business Applications 190, Microsoft PowerPoint (1.5)	
Business Applications 191, PowerPoint - Application Projects (1	.5)
Select a minimum of 3 units from the following electives:	3
Accounting 010, 035; Business Applications 016, 034, 036,	
038, 043, 066, 110A, 110B, 125, 150, 151, 169, 170, 174, 176,	
184 and 192	

Total

26

General Business Applications and Technology Option Certificate (sac.ba.ca)

Course	Units
Business Applications 018, Office Procedures	
Business Applications 120, Administrative Office Management	3
Business Applications 035, Computer Fundamentals	1.5
Business Applications 043, Microsoft Certified	0.5
Applications Specialist	
Business Applications 115A, Computer Keyboarding Speed &	1
Accuracy Development I	
Business Applications 183, Microsoft Word	3
Business Applications 188, Microsoft Excel	1.5
Business Applications 190, Microsoft PowerPoint	1.5
Business 080, Business Mathematics	3
Select a minimum of 3 units from the following electives:	3
Accounting 010, 035; Business Applications 016, 034, 036, 03	В,
066, 110A, 110B, 115B, 125, 147, 148, 150, 151, 169, 170, 174,	
176, 177, 179, 180, 184, 189, 190 and 192.	
Total	18

Digital Publishing Option Degree (sac.badp.aa)

Major requirements for the associate in arts or science degree:

Course	Jnits
Business Applications and Technology Core Requirements	17
Business Applications 160, Microsoft Publisher —OR —	3
Business Applications 170, Adobe InDesign	
Business Applications 164, Introduction to Adobe Photoshop	3
Business Applications 174, Creating Web Pages with Dreamweav and Flash	er 3
Business Applications 184, Advanced Microsoft Word for the Workplace	3
Select a minimum of 3 units from the following courses:	
Business Applications 163, 166, 167, 169, 173, 176, 177, and 18	7 3
Total	32

Digital Publishing Option Certificate (sac.badp.ca)

Requirements for the certificate:

Course Ur	nits
Business Applications 160, Microsoft Publisher	3
Business Applications 170, Adobe InDesign	J
Business Applications 164, Introduction to Adobe Photoshop	3
Business Applications 174, Creating Web Pages with Dreamweaver and Flash	r 3
Business Applications 184, Advanced Microsoft Word for the Workplace	3
Select a minimum of 6 units from the following courses:	6
Business Applications 163, 166, 167, 169, 173, 176, 177, and 187	
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	1.5
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	1.5
Business Applications 191, PowerPoint – Application Projects	1.5
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	0.5
Specialist Preparation	
Business Applications 049, Introduction to Microsoft Access	1.5
Business Applications 066, Microsoft Outlook	1.5
Business Applications 115A, Computer Keyboarding Speed &	1
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	19



Office Management Option Degree (sac.baom.aa)

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

Course	Jnits
Business Applications 017, Business Writing Skills OR	3
Business 222, Business Writing	
Business Applications 018, Office Procedures	3
Business Applications 120, Administrative Office Management	Ŭ
Business Applications 147, Introduction to Windows	1.5
Business Applications 179, Introduction to Microsoft Office	4
Business 080, Business Mathematics	3
Business 120, Principles of Management	3
Select a minimum of 6 units from the following courses:	6
Business 101, Business Law (3)	
Business 105, Legal Environment of Business (3)	
Business 125, Introduction to International Business(3)	
Business Applications 066, Microsoft Outlook (1.5)	
Business Applications 185, Real World Microsoft Projects (3)	
Business Applications 189, Excel - Application Projects (1.5)	
Select a minimum of 3 units from the following electives:	3
Accounting 010, 035, 115; Business Applications 038, 043,	
049, 115A, 115B, 148, 169, 170, 174, 176, 177, 183, 184, 188, 190 and 192.	

Office Management Option Certificate (sac.baom.ca)

Course	Units
Business Applications 017, Business Writing Skills	
—OR—	3
Business 222, Business Writing	
Business Applications 018, Office Procedures	
-OR-	3
Business Applications 120, Administrative Office Management	
Business Applications 179, Introduction to Microsoft Office	4
Business 080, Business Mathematics	3
Select 6 units from the following electives:	6
Accounting 010, 035, 115; Business Applications 035, 038, 043,	
049, 066, 115A, 115B, 147, 148, 169, 170, 174, 176, 177, 180, 18	3,
184, 188, 189, 190 and 192.	
Total	19

Total

26.5

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

Course	Units
Spanish 195A, Advanced Conversational Spanish	3
Business Applications 056, General Foundation for	3
Bilingual Business Interpretation-Spanish/English	
Business Applications 057, Medical Interpretation &	3
Translation-Spanish/English	
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	1-4
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.	
Total	16-19

BUSINESS INFORMATION SCIENCE

(See Computer Science)

BUSINESS MANAGEMENT (sac.bm.aa) A.A. DEGREE

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.

Major requirements for the associate in arts or science degree:

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)	3
Management 120, Principles of Management (3)	
Select ONE course from the following:	
Business 222, Business Writing (3) —OR—	3
Management 122, Business Communications (3)	
Select two courses from the following:	6
Business 105, Legal Environment of Business (3)	
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

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	3
Entrepreneurship	
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	2
Validation	
Entrepreneurship 106, Building an Entrepreneurial Team	2
Entrepreneurship 107, Money, Finance and Accounting for	2
Entrepreneurs	
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	22

Entrepreneurship and Innovation Certificate (sac.entei.ca)

Core Requirements:

Course	Units
Entrepreneurship 100, Introduction to Innovation and	3
Entrepreneurship	
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	2
Validation	
Entrepreneurship 106, Building an Entrepreneurial Team	2
Entrepreneurship 107, Money, Finance and Accounting for	2
Entrepreneurs	
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	22

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 39.) (Minimum 39 units)

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	
—OR —	5
Chemistry 219H, Honors General Chemistry	
Chemistry 229, General Chemistry & Qualitative Analysis	5
Chemistry 239, Quantitative Analysis (4 units)	
—OR —	4-5
Chemistry 249, Organic Chemistry I (5 units)	
-AND	
Chemistry 259, Organic Chemistry II	5
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 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:

Course	Units
Art 104, Mexican & Chicano Art History	3
Chicano Studies 101, Introduction to Chicano Studies	3
English 246, Survey of Chicano Literature	3
Ethnic Studies 101, Introduction to Ethnic Studies —OR —	3
Ethnic Studies 101H, Honors Introduction to Ethnic Studies	
History 124, Mexican-American History in the United States —OR—	3
History 124H, Honors Mexican-American History in the United S	States
History 153, History of Mexico	3
History 181, Survey of Chicana/Latina Women's History	3
Spanish 101, Elementary Spanish I	5
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 100H, 104 or 104H, 105, 125; Black Studies 101; Dance 105, 110, 111, 112; English 104 or 104H; History 101 or 101H, 102 or 102H, 105, 125, 127, 150, 151; Human Development 221; Music 102 or 102H; Sociology 100 or 100H; Spanish 201 or 201H, 202 or 202H.

CHILD DEVELOPMENT

(See Human Development-Early Childhood)

COMMUNICATION STUDIES DEGREE

(Formerly Speech Communication)

Option 1 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 OR—	3
Communication Studies 101H, Honors Introduction to	· ·
Interpersonal Communication	
Communication Studies 102, Public Speaking	3



Communication Studies 103, Introduction to	
Intercultural Communication	
OR — Communication Studies 103H, Honors Introduction to	3
Intercultural Communication	
Communication Studies 140, Argumentation & Debate	3
Communication Studies 145, Group Dynamics	3
One additional elective from the following:	3
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 206H, Honors Gender Communication	on (3)
Total	18

Option 2 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 50 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	Units
Required Core (3 Units)	
Communication Studies 102, Public Speaking	3
List A – select two courses (6 units)	
Communication Studies 140, Argumentation and Debate	3
Communication Studies 101, Introduction to	
Interpersonal Communication	
OR — Communication Studies 101H, Honors Introduction to	3
Interpersonal Communication	
Communication Studies 145, Group Dynamics	3
Communication Studies 143, Group Dynamics	
List B – select two courses (6 units)	
Any List A course not used above	3
Communication Studies 103, Introduction to	
Intercultural Communication	
—OR—	3
Communication Studies 103H, Honors Introduction to Intercultural Communication	
Communication Studies 151, Voice and Diction	3
for Effective Communication	
Communication Studies 152, Oral Interpretation	3
Television/Video Communications 105, Mass Media and Society	
Television/Video Communications 105H, Honors Mass Media	
and 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
Total General Education Units:	
CSU-General Education Breadth OR	41
Intersegmental General Education Transfer Curriculum (IGETC)	39
CSU Transferable Elective Units: As needed to Total 60 degree un	nits
Total Number of Degree Units	60

ASSOCIATES DEGREE IN COMMUNICATIONS AND MEDIA STUDIES

(Formerly Journalism)

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:

Degree Program A-Communications and Media Studies (sac.cmsda.aa)

(Formerly Print Journalism Emphasis)

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Course	nits
Communications and Media Studies 102, Multimedia Storytelling	3
Communications and Media Studies 103, Visual Communications	3
Communications and Media Studies 110, Introduction to Narrative Nonfiction	4
Communications and Media Studies 121, Writing & Reporting for	
Media	3
Communications and Media Studies 122, Editing for Print and Digital Media	3
Communications and Media Studies 123, News Media Production	4
Communications and Media Studies 124, Magazine Writing for Prir and Digital Media	nt 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 Digital Media	3
Total	31



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

(Formerly Broadcast Journalism Emphasis)

Course	Inits
Communications and Media Studies 121, Writing & Reporting for Media	3
Television/Video Communications 100, Introduction to Electronic Media: Broadcasting, Cable, Video	3
Television/Video Communications 105, Mass Media & Society	3
Television/Video Communications 110, Television Studio & Equipment Orientation	3
Television/Video Communications 111, Television Production	3
Communications and Media Studies 130, Principles of Broadcast News	3
Television/Video Communications 141, On-Camera Appearance	3
Communications and Media Studies 230A, Broadcast News Production	4
Communications and Media Studies 230B, Broadcast News Production	4
Communication Studies 101, Introduction to	
Interpersonal Communication (3) —OR —	3
Communication Studies 101H, Honors Introduction to	Ū
Interpersonal Communication (3)	
Communication Studies 151, Voice & Diction for	3
Effective Communication	
Total	35

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

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.

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

(Formerly Journalism Option Certificate)

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	Jnits
Communications and Media Studies 102, Multimedia Storytelling	3
Communications and Media Studies 103, Visual Communications	s 3
Communications and Media Studies 110, Introduction to Narrative	e 4
Nonfiction	
Communications and Media Studies 121, Writing & Reporting for	3
Media	
Communications and Media Studies 123, News Media Production	n 4
Communications and Media Studies 125, Media Editing Worksho	p 1.5
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	
Total	23.5

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 Human Services. The baccalaureate degree in Human Services prepares students for graduate programs in Counseling, Social Work and Marriage and Family Therapy. Please see a counselor for specific course requirements for your transfer university.

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 OR OR OR	3
Psychology 157, Introduction to Child Psychology	
Sociology 112, Relationships, Marriages, and Family Dynamics —OR—	
Psychology 100, Introduction to Psychology OR	3
Psychology 100H, Honors Introduction to Psychology	
Select a minimum of 6 units from the electives below:	6
Total	18

Electives (all electives are 3 units unless otherwise noted): Anthropology 100 or 100H, 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 100H, Sociology 112 or Psychology 100 or 100H, if not chosen from above.

COMPUTER INFORMATION SYSTEMS DEGREE (sac.cis.aa) AND CERTIFICATE (sac.cis.ca)

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.

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

Take ALL of the following courses:	Units
Computer Science 105, Visual BASIC Programming	3
Computer Science 163, Microsoft Excel	3
Computer Science 167, Microsoft Access	3
Computer Science 173, Introduction to Networking Technology	3
Computer Science 205, Advanced Visual BASIC	3
Select ONE course from the following:	
Business 150, Introduction to Information Systems and Applications (3)	3
Computer Science 100, The Computer & Society (3)	
Select ONE course from the following:	
Computer Science 134B, Windows Vista Operating System (3) 3
Computer Science 134C, Microsoft Windows 7 Operating Syst	tem (3)
Select ONE course from the following:	
Computer Science 247B, Windows Server 2008 —OR —	3
Computer Science 247C, Windows Small Business (SBS) 201 ⁻ - Standard	1



Select a minimum of THREE units from the following:	3 Help Desk (sac.cishd.cert)
Accounting 101, Financial Accounting (4)	Take ALL of the following courses: Units
Accounting 102, Managerial Accounting (4)	Computer Science 100, The Computer & Society 3
Accounting 160 Computerized Accounting with MAS 90® - Part 1 Core Modules (3)	Computer Science 104, Cooperative Work Experience Education 1-4 -Occupational
Computer Science 104 Cooperative Work Experience Education	Computer Science 124A, MCDST Preparation 3
-Occupational (1-4)	Computer Science 125, Help Desk Skills 1.5
Computer Science 112, Java Programming (3)	Computer Science 137, Personal Computer Troubleshooting 3
Computer Science 117, Perl Programming and CGI (3)	Select ONE course from the following:
Computer Science 118, JavaScript Programming (3)	Computer Science 124B, Windows Vieta Operating System (2)
Computer Science 120, Introduction to Programming (3) Computer Science 121, Programming Concepts (3)	—OR—
Computer Science 124A, MCDST Preparation (3)	Computer Science 134C, Microsoft Windows 7 Operating System (3)
Computer Science 124A, MODST Preparation (3) Computer Science 125, Help Desk Skills (1.5)	Total 14.5-17.5
Computer Science 135, Neip Besk Skills (1.5) Computer Science 135, Software Deployment Mechanisms (1.5)	Naturaling (aga signur agut)
Computer Science 136, Building a Small Office/Home Office	Networking (sac.cisnw.cert)
Network (1.5)	Take ALL of the following courses: Units
Computer Science 137, Personal Compute Troubleshooting (3)	Computer Science 136, Building a Small Office/Home Office 1.5
Computer Science 139, Configuration and Administration of Local	Network
Area Networks (1.5)	Computer Science 139, Configuration and Administration of 1.5
Computer Science 141, UNIX Operating System 3	Local Area Networks
Computer Science 142, Advanced Unix 3	Computer Science 173, Introduction to Networking Technology 3
Computer Science 152, HTML 3	Select ONE course from the following:
Computer Science 168, Advanced Microsoft Access 3	Computer Science 134B, Windows Vista Operating System (3)
Computer Science 169, Structured Query Language (SQL) 3	Computer Science 134C, Windows 7 Operating System (3)
Computer Science 206, Visual Basic for Web Development (3)	Select ONE course from the following:
Computer Science 213, C# Programming (3)	Computer Science 247B, Microsoft Windows Server 2008 (3)
Computer Science 214, XML Programming (3)	Computer Science 247C, Windows Small Business Server
Computer Science 243, UNIX System Programming (3) Computer Science 244, Microsoft Exchange Server (3)	(SBS)2011-Standard (3)
	Total 12
Computer Science 247B, Windows Server 2008 (3)	
Computer Science 247B, Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server	Total 12 PC Maintenance and Troubleshooting (sac.cmprm.cert)
Computer Science 247B, Windows Server 2008 (3)	PC Maintenance and Troubleshooting (sac.cmprm.cert)
Computer Science 247B, Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3)	PC Maintenance and Troubleshooting (sac.cmprm.cert) Take ALL of the following courses: Units
Computer Science 247B, Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Computer Science 248, Microsoft SQL Server (3)	PC Maintenance and Troubleshooting (sac.cmprm.cert) Take ALL of the following courses: Computer Science 135, Software Deployment Mechanisms 1.5
Computer Science 247B, Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Computer Science 248, Microsoft SQL Server (3) Computer Science 249, Microsoft Internet Information Server	PC Maintenance and Troubleshooting (sac.cmprm.cert) Take ALL of the following courses: Computer Science 135, Software Deployment Mechanisms Computer Science 136, Building a Small Office/Home Office
Computer Science 247B, Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Computer Science 248, Microsoft SQL Server (3) Computer Science 249, Microsoft Internet Information Server (IIS) (3) Total 2	PC Maintenance and Troubleshooting (sac.cmprm.cert) Take ALL of the following courses: Computer Science 135, Software Deployment Mechanisms Computer Science 136, Building a Small Office/Home Office Network Network Computer Science 137, Personal Computer Troubleshooting 3
Computer Science 247B, Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Computer Science 248, Microsoft SQL Server (3) Computer Science 249, Microsoft Internet Information Server (IIS) (3)	PC Maintenance and Troubleshooting (sac.cmprm.cert) Take ALL of the following courses: Computer Science 135, Software Deployment Mechanisms Computer Science 136, Building a Small Office/Home Office Network 1.5
Computer Science 247B, Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Computer Science 248, Microsoft SQL Server (3) Computer Science 249, Microsoft Internet Information Server (IIS) (3) Total 2 Database (sac.cisdb.cert)	PC Maintenance and Troubleshooting (sac.cmprm.cert) Take ALL of the following courses: Computer Science 135, Software Deployment Mechanisms 1.5 Computer Science 136, Building a Small Office/Home Office Network 1.5 Computer Science 137, Personal Computer Troubleshooting Computer Science 139, Configuration and Administration of Local Area Networks
Computer Science 247B, Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Computer Science 248, Microsoft SQL Server (3) Computer Science 249, Microsoft Internet Information Server (IIS) (3) Total 2 Database (sac.cisdb.cert) Take ALL of the following courses: Unit	PC Maintenance and Troubleshooting (sac.cmprm.cert) Take ALL of the following courses: Computer Science 135, Software Deployment Mechanisms 1.5 Computer Science 136, Building a Small Office/Home Office Network 1.5 Computer Science 137, Personal Computer Troubleshooting Computer Science 139, Configuration and Administration of Local Area Networks Computer Science 173, Introduction to Networking Technology 3
Computer Science 247B, Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Computer Science 248, Microsoft SQL Server (3) Computer Science 249, Microsoft Internet Information Server (IIS) (3) Total 2 Database (sac.cisdb.cert) Take ALL of the following courses: Unit	PC Maintenance and Troubleshooting (sac.cmprm.cert) Take ALL of the following courses: Computer Science 135, Software Deployment Mechanisms 1.5 Computer Science 136, Building a Small Office/Home Office Network 1.5 Computer Science 137, Personal Computer Troubleshooting 3 Computer Science 139, Configuration and Administration of Local Area Networks Computer Science 173, Introduction to Networking Technology 3 Select ONE course from the following:
Computer Science 247B, Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Computer Science 248, Microsoft SQL Server (3) Computer Science 249, Microsoft Internet Information Server (IIS) (3) Total 2 Database (sac.cisdb.cert) Take ALL of the following courses: Computer Science 105, Visual BASIC Programming	PC Maintenance and Troubleshooting (sac.cmprm.cert) Take ALL of the following courses: Computer Science 135, Software Deployment Mechanisms Computer Science 136, Building a Small Office/Home Office Network Computer Science 137, Personal Computer Troubleshooting Computer Science 139, Configuration and Administration of Local Area Networks Computer Science 173, Introduction to Networking Technology Select ONE course from the following: Computer Science 134B, Windows Vista Operating System (3)
Computer Science 247B, Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Computer Science 248, Microsoft SQL Server (3) Computer Science 249, Microsoft Internet Information Server (IIS) (3) Total 2 Database (sac.cisdb.cert) Take ALL of the following courses: Unit Computer Science 105, Visual BASIC Programming Computer Science 167, Microsoft Access Computer Science 168, Advanced Microsoft Access	PC Maintenance and Troubleshooting (sac.cmprm.cert) Take ALL of the following courses: Computer Science 135, Software Deployment Mechanisms 1.5 Computer Science 136, Building a Small Office/Home Office Network 1.5 Computer Science 137, Personal Computer Troubleshooting 3 Computer Science 139, Configuration and Administration of Local Area Networks Computer Science 173, Introduction to Networking Technology 3 Select ONE course from the following: Computer Science 134B, Windows Vista Operating System (3) 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Computer Science 247B, Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Computer Science 248, Microsoft SQL Server (3) Computer Science 249, Microsoft Internet Information Server (IIS) (3) Total 2 Database (sac.cisdb.cert) Take ALL of the following courses: Unit Computer Science 105, Visual BASIC Programming Computer Science 167, Microsoft Access Computer Science 168, Advanced Microsoft Access Computer Science 169 Structured Query Language (SQL)	PC Maintenance and Troubleshooting (sac.cmprm.cert) Take ALL of the following courses: Computer Science 135, Software Deployment Mechanisms 1.5 Computer Science 136, Building a Small Office/Home Office Network 1.5 Computer Science 137, Personal Computer Troubleshooting 3 Computer Science 139, Configuration and Administration of Local Area Networks Computer Science 173, Introduction to Networking Technology 3 Select ONE course from the following: Computer Science 134B, Windows Vista Operating System (3) 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Computer Science 247B, Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Computer Science 248, Microsoft SQL Server (3) Computer Science 249, Microsoft Internet Information Server (IIS) (3) Total 2 Database (sac.cisdb.cert) Take ALL of the following courses: Computer Science 105, Visual BASIC Programming Computer Science 167, Microsoft Access Computer Science 168, Advanced Microsoft Access Computer Science 169 Structured Query Language (SQL) Computer Science 205, Advanced Visual BASIC	PC Maintenance and Troubleshooting (sac.cmprm.cert) Take ALL of the following courses: Computer Science 135, Software Deployment Mechanisms Computer Science 136, Building a Small Office/Home Office Network Computer Science 137, Personal Computer Troubleshooting Computer Science 139, Configuration and Administration of Local Area Networks Computer Science 173, Introduction to Networking Technology Select ONE course from the following: Computer Science 134B, Windows Vista Operating System (3) Computer Science 134C, Windows 7 Operating System (3) Select ONE course from the following: Computer Science 247B, Microsoft Windows Server 2008 (3)
Computer Science 247B, Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Computer Science 248, Microsoft SQL Server (3) Computer Science 249, Microsoft Internet Information Server (IIS) (3) Total 2 Database (sac.cisdb.cert) Take ALL of the following courses: Unit Computer Science 105, Visual BASIC Programming Computer Science 167, Microsoft Access Computer Science 168, Advanced Microsoft Access Computer Science 169 Structured Query Language (SQL) Computer Science 205, Advanced Visual BASIC Total 1	PC Maintenance and Troubleshooting (sac.cmprm.cert) Take ALL of the following courses: Computer Science 135, Software Deployment Mechanisms 1.5 Computer Science 136, Building a Small Office/Home Office Network Computer Science 137, Personal Computer Troubleshooting 3 Computer Science 139, Configuration and Administration of Local Area Networks Computer Science 173, Introduction to Networking Technology Select ONE course from the following: Computer Science 134B, Windows Vista Operating System (3) Computer Science 134C, Windows 7 Operating System (3) Select ONE course from the following: Computer Science 247B, Microsoft Windows Server 2008 (3) Computer Science 247B, Microsoft Windows Server 2008 (3)
Computer Science 247B, Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Computer Science 248, Microsoft SQL Server (3) Computer Science 249, Microsoft Internet Information Server (IIS) (3) Total 2 Database (sac.cisdb.cert) Take ALL of the following courses: Computer Science 105, Visual BASIC Programming Computer Science 167, Microsoft Access Computer Science 168, Advanced Microsoft Access Computer Science 169 Structured Query Language (SQL) Computer Science 205, Advanced Visual BASIC	PC Maintenance and Troubleshooting (sac.cmprm.cert) Take ALL of the following courses: Computer Science 135, Software Deployment Mechanisms Computer Science 136, Building a Small Office/Home Office Network Computer Science 137, Personal Computer Troubleshooting Computer Science 139, Configuration and Administration of Local Area Networks Computer Science 173, Introduction to Networking Technology Select ONE course from the following: Computer Science 134B, Windows Vista Operating System (3) Computer Science 134C, Windows 7 Operating System (3) Select ONE course from the following: Computer Science 247B, Microsoft Windows Server 2008 (3)
Computer Science 247B, Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Computer Science 248, Microsoft SQL Server (3) Computer Science 249, Microsoft Internet Information Server (IIS) (3) Total 2 Database (sac.cisdb.cert) Take ALL of the following courses: Unit Computer Science 105, Visual BASIC Programming Computer Science 167, Microsoft Access Computer Science 168, Advanced Microsoft Access Computer Science 169 Structured Query Language (SQL) Computer Science 205, Advanced Visual BASIC Total 1	PC Maintenance and Troubleshooting (sac.cmprm.cert) Take ALL of the following courses: Computer Science 135, Software Deployment Mechanisms Computer Science 136, Building a Small Office/Home Office Network Computer Science 137, Personal Computer Troubleshooting Computer Science 139, Configuration and Administration of Local Area Networks Computer Science 173, Introduction to Networking Technology Select ONE course from the following: Computer Science 134B, Windows Vista Operating System (3) Computer Science 134C, Windows 7 Operating System (3) Select ONE course from the following: Computer Science 247B, Microsoft Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3)
Computer Science 247B, Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Computer Science 248, Microsoft SQL Server (3) Computer Science 249, Microsoft Internet Information Server (IIS) (3) Total 2 Database (sac.cisdb.cert) Take ALL of the following courses: Computer Science 105, Visual BASIC Programming Computer Science 167, Microsoft Access Computer Science 168, Advanced Microsoft Access Computer Science 169 Structured Query Language (SQL) Computer Science 205, Advanced Visual BASIC Total 1 Enterprise Systems Certificate (sac.cmpres.cert) Take ALL of the following courses: Unit	PC Maintenance and Troubleshooting (sac.cmprm.cert) Take ALL of the following courses: Computer Science 135, Software Deployment Mechanisms 1.5 Computer Science 136, Building a Small Office/Home Office Network Computer Science 137, Personal Computer Troubleshooting 3 Computer Science 139, Configuration and Administration of 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) Computer Science 134C, Windows 7 Operating System (3) Select ONE course from the following: Computer Science 247B, Microsoft Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Total Total
Computer Science 247B, Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Computer Science 248, Microsoft SQL Server (3) Computer Science 249, Microsoft Internet Information Server (IIS) (3) Total 2 Database (sac.cisdb.cert) Take ALL of the following courses: Computer Science 165, Visual BASIC Programming Computer Science 167, Microsoft Access Computer Science 168, Advanced Microsoft Access Computer Science 169 Structured Query Language (SQL) Computer Science 205, Advanced Visual BASIC Total 1 Enterprise Systems Certificate (sac.cmpres.cert) Take ALL of the following courses: Computer Science 244, Microsoft Exchange Server Computer Science 248, Microsoft SQL Server	PC Maintenance and Troubleshooting (sac.cmprm.cert) Take ALL of the following courses: Computer Science 135, Software Deployment Mechanisms Computer Science 136, Building a Small Office/Home Office Network Computer Science 137, Personal Computer Troubleshooting Computer Science 139, Configuration and Administration of Local Area Networks Computer Science 173, Introduction to Networking Technology Select ONE course from the following: Computer Science 134B, Windows Vista Operating System (3) Computer Science 134C, Windows 7 Operating System (3) Select ONE course from the following: Computer Science 247B, Microsoft Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Total
Computer Science 247B, Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Computer Science 248, Microsoft SQL Server (3) Computer Science 249, Microsoft Internet Information Server (IIS) (3) Total 2 Database (sac.cisdb.cert) Take ALL of the following courses: Computer Science 105, Visual BASIC Programming Computer Science 167, Microsoft Access Computer Science 168, Advanced Microsoft Access Computer Science 169 Structured Query Language (SQL) Computer Science 205, Advanced Visual BASIC Total 1 Enterprise Systems Certificate (sac.cmpres.cert) Take ALL of the following courses: Computer Science 244, Microsoft Exchange Server Computer Science 248, Microsoft SQL Server Computer Science 249, Microsoft Internet Information Server (IIS)	PC Maintenance and Troubleshooting (sac.cmprm.cert) Take ALL of the following courses: Computer Science 135, Software Deployment Mechanisms 1.5 Computer Science 136, Building a Small Office/Home Office Network Computer Science 137, Personal Computer Troubleshooting 3 Computer Science 139, Configuration and Administration of 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) Computer Science 134C, Windows 7 Operating System (3) Select ONE course from the following: Computer Science 247B, Microsoft Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Total 16.5 UNIX Certificate (sac.cisux.cert)
Computer Science 247B, Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Computer Science 248, Microsoft SQL Server (3) Computer Science 249, Microsoft Internet Information Server (IIS) (3) Total 2 Database (sac.cisdb.cert) Take ALL of the following courses: Computer Science 105, Visual BASIC Programming Computer Science 167, Microsoft Access Computer Science 168, Advanced Microsoft Access Computer Science 169 Structured Query Language (SQL) Computer Science 205, Advanced Visual BASIC Total 1 Enterprise Systems Certificate (sac.cmpres.cert) Take ALL of the following courses: Computer Science 244, Microsoft Exchange Server Computer Science 248, Microsoft SQL Server Computer Science 249, Microsoft Internet Information Server (IIS) Select ONE course from the following:	PC Maintenance and Troubleshooting (sac.cmprm.cert) Take ALL of the following courses: Computer Science 135, Software Deployment Mechanisms Computer Science 136, Building a Small Office/Home Office Network Computer Science 137, Personal Computer Troubleshooting Computer Science 139, Configuration and Administration of Local Area Networks Computer Science 173, Introduction to Networking Technology Select ONE course from the following: Computer Science 134B, Windows Vista Operating System (3) Computer Science 134C, Windows 7 Operating System (3) Select ONE course from the following: Computer Science 247B, Microsoft Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Total 16.5 UNIX Certificate (sac.cisux.cert) Take ALL of the following courses: Units
Computer Science 247B, Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Computer Science 248, Microsoft SQL Server (3) Computer Science 249, Microsoft Internet Information Server (IIS) (3) Total 2 Database (sac.cisdb.cert) Take ALL of the following courses: Unit Computer Science 105, Visual BASIC Programming Computer Science 167, Microsoft Access Computer Science 168, Advanced Microsoft Access Computer Science 169 Structured Query Language (SQL) Computer Science 205, Advanced Visual BASIC Enterprise Systems Certificate (sac.cmpres.cert) Take ALL of the following courses: Unit Computer Science 244, Microsoft Exchange Server Computer Science 249, Microsoft SQL Server Computer Science 249, Microsoft Internet Information Server (IIS) Select ONE course from the following: Computer Science 247B, Windows Server 2008 (3)	PC Maintenance and Troubleshooting (sac.cmprm.cert) Take ALL of the following courses: Computer Science 135, Software Deployment Mechanisms 1.5 Computer Science 136, Building a Small Office/Home Office Network 1.5 Computer Science 137, Personal Computer Troubleshooting 3 Computer Science 139, Configuration and Administration of Local Area Networks Computer Science 173, Introduction to Networking Technology 3 Select ONE course from the following: Computer Science 134B, Windows Vista Operating System (3) Computer Science 134C, Windows 7 Operating System (3) Select ONE course from the following: Computer Science 247B, Microsoft Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Total UNIX Certificate (sac.cisux.cert) Take ALL of the following courses: Units
Computer Science 247B, Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Computer Science 248, Microsoft SQL Server (3) Computer Science 249, Microsoft Internet Information Server (IIS) (3) Total 2 Database (sac.cisdb.cert) Take ALL of the following courses: Computer Science 105, Visual BASIC Programming Computer Science 167, Microsoft Access Computer Science 168, Advanced Microsoft Access Computer Science 169 Structured Query Language (SQL) Computer Science 205, Advanced Visual BASIC Total 1 Enterprise Systems Certificate (sac.cmpres.cert) Take ALL of the following courses: Computer Science 244, Microsoft Exchange Server Computer Science 248, Microsoft SQL Server Computer Science 249, Microsoft Internet Information Server (IIS) Select ONE course from the following: Computer Science 247B, Windows Server 2008 (3) —OR—	PC Maintenance and Troubleshooting (sac.cmprm.cert) Take ALL of the following courses: Computer Science 135, Software Deployment Mechanisms Computer Science 136, Building a Small Office/Home Office Network Computer Science 137, Personal Computer Troubleshooting Computer Science 139, Configuration and Administration of Local Area Networks Computer Science 173, Introduction to Networking Technology Select ONE course from the following: Computer Science 134B, Windows Vista Operating System (3) Computer Science 134C, Windows 7 Operating System (3) Select ONE course from the following: Computer Science 247B, Microsoft Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Total 16.5 UNIX Certificate (sac.cisux.cert) Take ALL of the following courses: Units Computer Science 117, Perl Programming & CGI
Computer Science 247B, Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Computer Science 248, Microsoft SQL Server (3) Computer Science 249, Microsoft Internet Information Server (IIS) (3) Total 2 Database (sac.cisdb.cert) Take ALL of the following courses: Unit Computer Science 105, Visual BASIC Programming Computer Science 167, Microsoft Access Computer Science 168, Advanced Microsoft Access Computer Science 169 Structured Query Language (SQL) Computer Science 205, Advanced Visual BASIC Enterprise Systems Certificate (sac.cmpres.cert) Take ALL of the following courses: Unit Computer Science 244, Microsoft Exchange Server Computer Science 249, Microsoft SQL Server Computer Science 249, Microsoft Internet Information Server (IIS) Select ONE course from the following: Computer Science 247B, Windows Server 2008 (3)	PC Maintenance and Troubleshooting (sac.cmprm.cert) Take ALL of the following courses: Computer Science 135, Software Deployment Mechanisms Computer Science 136, Building a Small Office/Home Office Network Computer Science 137, Personal Computer Troubleshooting Computer Science 139, Configuration and Administration of Local Area Networks Computer Science 173, Introduction to Networking Technology Select ONE course from the following: Computer Science 134B, Windows Vista Operating System (3) Computer Science 134C, Windows 7 Operating System (3) Select ONE course from the following: Computer Science 247B, Microsoft Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Total 16.5 UNIX Certificate (sac.cisux.cert) Take ALL of the following courses: Computer Science 117, Perl Programming & CGI 3 Computer Science 141, UNIX Operating System 3
Computer Science 247B, Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Computer Science 248, Microsoft SQL Server (3) Computer Science 249, Microsoft Internet Information Server (IIS) (3) Total 2 Database (sac.cisdb.cert) Take ALL of the following courses: Computer Science 105, Visual BASIC Programming Computer Science 167, Microsoft Access Computer Science 168, Advanced Microsoft Access Computer Science 169 Structured Query Language (SQL) Computer Science 205, Advanced Visual BASIC Total 1 Enterprise Systems Certificate (sac.cmpres.cert) Take ALL of the following courses: Computer Science 244, Microsoft Exchange Server Computer Science 249, Microsoft SQL Server Computer Science 249, Microsoft Internet Information Server (IIS) Select ONE course from the following: Computer Science 247B, Windows Server 2008 (3) —OR— Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3)	PC Maintenance and Troubleshooting (sac.cmprm.cert) Take ALL of the following courses: Computer Science 135, Software Deployment Mechanisms Computer Science 136, Building a Small Office/Home Office Network Computer Science 137, Personal Computer Troubleshooting Computer Science 139, Configuration and Administration of Local Area Networks Computer Science 173, Introduction to Networking Technology Select ONE course from the following: Computer Science 134B, Windows Vista Operating System (3) Select ONE course from the following: Computer Science 134C, Windows 7 Operating System (3) Select ONE course from the following: Computer Science 247B, Microsoft Windows Server 2008 (3) Computer Science 247C, Windows Small Business Server (SBS)2011–Standard (3) Total 16.5 UNIX Certificate (sac.cisux.cert) Take ALL of the following courses: Computer Science 117, Perl Programming & CGI 3 Computer Science 141, UNIX Operating System 3 Computer Science 142, Advanced UNIX 3



Web Programming (sac.ciswp.cert)

Take the following 3 courses:	Units
Computer Science 105, Visual BASIC Programming	3
Computer Science 205, Advanced Visual BASIC	3
Computer Science 206, Visual BASIC for Web Development	3
Select ONE course from the following:	
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)	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 DEGREE (sac.cmpr.aa) AND CERTIFICATE (sac.cmpr.ca)

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 arts or science degree and certificate:

Course	nits
Take ALL of the following courses:	
Computer Science 100, The Computer & Society	3
Computer Science 111, Introduction to Computer Organization	4
Computer Science 120, Introduction to Programming	3
Computer Science 121, Programming Concepts	3
Computer Science 131, Data Structures Concepts	
Select ONE course from the following:	3
Computer Science 112, Java Programming (3)	
Computer Science 205, Advanced Visual BASIC	
Computer Science 213, C# Programming	
Select an additional SIX units from the following:	6
Computer Science 112, Java Programming (3)	
Computer Science 117, Perl Programming and CGI (3)	
Computer Science 118, JavaScript Programming (3)	
Computer Science 134B, Windows Vista Operating System (3)	
Computer Science 134C, Microsoft Windows 7 Operating System	n (3)
Computer Science 135, Software Deployment Mechanisms (1.5)	
Computer Science 139, Configuration and Administration of Loc	al
Area Networks (1.5)	
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 Server 2008Small Business	
Server (SBS)2011-Standard (3)	
Computer Science 248, Microsoft SQL Server (3)	
Computer Science 249, Microsoft Internet Information Server (IIS)), (3)
Mathematics 180, Analytic Geometry and Calculus (Revised: 04/2007) (4)	
Mathematics 185, Analytic Geometry and Calculus Revised 10/2008) (4)	

Programming (sac.cmrp.ca) Certificate

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) OR Computer Science 205, Advanced Visual BASIC (3) OR Computer Science 213, C# Programming (3)	3
Total	12

Total

25

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	Inits
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 205, Criminal Investigation	3
Total	18

Criminal Justice Option Degree (sac.cj.aa)

(Formerly: Law Enforcement Option Degree SAC 0607)

Major requirements for the associate in arts degree:

Course	Jnits
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)	
Total	27

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

Law Enforcement Option Certificate (sac.cjle.ca)

Major requirements for the certificate:

Course	Jnits
Criminal Justice Academies 010, Pre-Employment Preparation fo	r 1
Law Enforcement	
Criminal Justice Academies 100, Basic Police Academy	24
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	3
Criminal Justice System	
Criminal Justice 109, Community Interaction	3
Total	40

DANCE DEGREE AND CERTIFICATE

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 and dance history. 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	Uni	its
Dance 100, Dance History & Appreciation —OR—		3
Dance 100H, Honors Dance History & Appreciation		
Dance 201AB, Ballet I, Ballet II		4
Dance 202B, Choreography for Dance Majors		3
Dance 204AB, Dance Production		6
Dance 206AB, Modern Dance I, Modern Dance II		4
Dance 209, Modern Dance III		2
Dance 213, Ballet III		2
Dance 219AB, Jazz Dance I, Jazz Dance II		4
Dance 220, Jazz Dance III		2
Electives from recommended list		2
Т	otal	32

Recommended electives: Dance 009, 010, 098, 102, 103, 105, 106A, 106B, 107, 108A, 108B, 109, 110, 111, 112, 115A, 115B, 116, 117, 118, 119A, 119B, 120, 121, 122, 123, 124, 130, 140, 198, 202A, 205, 210, 214, 215A, 215B, 221, 232, 240A, 270, 296, 297, 298.

Degree Program B-Dance/Musical Theatre (sac.dncem.aa)

The associate in arts degree in dance with a musical theatre option combines fundamental dance courses with theatre arts and music courses to provide training for students in acting, voice, and dance. This program is designed to develop skills desirable for musical theatre performance and to prepare students for auditions in the performing arts industry. Completion of the associate in arts degree in dance with the musical theatre option 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. Employment opportunities exist in television, semiprofessional and professional theatres, touring shows, private instruction, choreography, and dance-related fields.

Major requirements for the associate degree in dance/musical theatre:

Course	Units
Dance 100, Dance History & Appreciation	3
Dance 201AB, Ballet I, Ballet II	4
Dance 202B, Choreography for Dance Majors	3
Dance 204B, Dance Production	3
Dance 206AB, Modern Dance I, Modern Dance II	4
Dance 215AB, Tap Dance I, Tap Dance II	4
Dance 219AB, Jazz Dance I, Jazz Dance II	4
Theatre Arts 110, Acting Fundamentals	3
Music 121, Beginning Voice	1
Music 122, Intermediate Voice	1
Electives from recommended list	2

Total



Recommended electives: Dance 009, 010, 098, 102, 103, 105, 106A, 106B, 107, 108A, 108B, 109, 110, 111, 112, 115A, 115B, 116, 117, 118, 119A, 119B, 120, 121, 122, 123, 124, 130, 140, 198, 202A, 205, 210, 214, 215A, 215B, 221, 232, 240A, 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. Directed study in dance internship positions provide practical career and occupational 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.

Entrance into this program is by audition. See current audition criteria and information packet for details.

Requirements for the certificate:

Course		Units
Dance 213, Ballet III		2
Dance 214, Ballet IV		2
Dance 209, Modern Dance III		2
Dance 210, Modern Dance IV		2
Dance 220, Jazz Dance III		2
Dance 221, Jazz Dance IV		2
Dance 232, Partnering		1
Dance 202B, Choreography for Dance Majors		3
Dance 204A, Dance Production		3
Dance 205, Performance Ensemble		2
Dance 240A, Repertory I		2
Electives from recommended list		2
	Total	25

Recommended electives: Dance 009, 010, 098, 105, 109, 110, 111, 112, 117, 118, 123, 124, 198, 215AB, 216, 270, 296, 297, 298; Television/Video Communications 110; Theatre Arts 110, 113, 132.

DATA PROCESSING

(See Computer Information Systems)

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)	

Total 18.5-22.5



DRAFTING TECHNOLOGY

(See Engineering)

DRESSMAKING AND ALTERATIONS

(See Fashion Design and Custom Clothing)

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	1
Chemistry 209, Introduction to Chemistry	
—OR — Chemistry/Physical Science 115, Physical Science for Educators	4 s*
Earth Science 115, Earth Science for Educators*	
Geology 101, Introduction to Geology —AND—	4
Geology 101L, Introduction to Geology Laboratory	
Geology/Environmental Studies 140, Environmental Geology	3
Geology/Earth Science 150, Introduction to Oceanography OR OR OR	3
Geology/Earth Science 150H, Honors Introduction to Oceanogr	aphy
Geology 201, Introduction to Historical Geology	4
Electives	2
Total	24

Electives: Geology 111, 112, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 176

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	
-OR-	4
Accounting 101H, Honors Financial Accounting	
Accounting 102, Managerial Accounting	1
—OR — Accounting 102H, Honors Managerial Accounting	4
Economics 120, Principles/Macro	3
Economics 121, Principles/Micro	3
**Social Science 219, Statistics & Probability	
—OR—	4
**Social Science 219H, Honors Statistics & Probability	
Business 150, Introduction to Computing & Application Software OR OR OR) 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.

EDUCATION

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	Jnits
Human Development 113, Tutoring Reading in Elementary School	s 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*	0-4
English 061, Introduction to Composition*	0-3
Total	9-16

^{*}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:

Course	Jnits
Human Development 113, Tutoring Reading in Elementary Schoo	ls 1
Counseling/Human Development 114, Careers in Teaching	1
Human Development 107, Child Growth & Development OR Psychology 157, Introduction to Child Psychology	3
Human Development 110, Child, Family & Community	3
Human Development 205, Exceptionality & Special Needs in Human Development	3
Human Development 121, School Age Child Care Activities	3
Dance 102, Introduction to Dance Forms OR Communication Studies 102, Public Speaking	3
Total	17

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.

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

^{**}Social Science 219/219H is alternately listed as Mathematics 219/219H. Recommended electives: Business 101, 102, 120.



Major requirements for the associate degree and certificate:

Course	Units
Counseling 150, Introduction to Human Services	3
Education 209, Roles & Responsibilities of the	3
Special Education Paraprofessional	
Education 211, Classroom Practices for Diverse Learners	3
Human Development 107, Child Growth & Development (DS1)	3
Psychology 157, Introduction to Child Psychology	
Human Development 205, Exceptionality & Special Needs in Human Development	3
Human Development 208, Working with Families of Children with Special Needs	3
Total	18

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

Course	Jilita
Education 100, Introduction to Education	3
Human Development 107, Child Growth & Development	3
Psychology 157, Introduction to Child Psychology	
Biology 115, Concepts in Biology for Educators	
Earth Science 115, Earth Science for Educators	4
Physical Science 115, Concepts in Physical Sciences for Educato	
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	3
History 120 or 120H, The United States to 1865	
History 118, Social & Cultural History of the United States	3
Political Science 101 or 101H, Introduction to American Governme	
Geography 100 or 100H, World Regional Geography	
Art 100 or 100H, Introduction to Art Concepts —OR—	
Art 101 or 101H, Survey of Western Art History	
Art 102, Western Art History OR—	
Dance 100 or 100H, Dance History and Appreciation —OR—	3
Dance 102, Introduction to Dance Forms —OR—	
Music 101 or 101H, Music Appreciation —OR—	
Theatre Arts 100, Introduction to Theatre	
And ONE of the Following:	3

Communication Studies 102, Public Speaking (3) Interdisciplinary Studies 200, Introduction to Liberal Studies (3) English 206, Introduction to Language Structure and Use (3) Anthropology 104 or 104H, 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

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:

Units

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

Engineering Transfer

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

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



Engineering Technology, Manufacturing Technology, and Industrial Technology Transfer

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

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

ENGINEERING CIVIL TECHNOLOGY DEGREE (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/	2
Civil Engineering/Construction (AEC)	
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:	
Engineering 122, Engineering Drawing	
Engineering 125, Engineering Graphics	3
Select ONE of the Following:	
Engineering 119, Advanced Plane Surveying (4)	
—OR — Engineering 205, Civil Digital Computations (3)	3-4
Total	29-30

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:

Course	Units
Business Applications 147, Introduction to Windows	1.5
Engineering 100A, Introduction to Engineering —OR—	2
Engineering 100B, Introduction to Architecture/	
Civil Engineering/Construction (AEC)	
Engineering 122, Engineering Drawing —OR—	3
Engineering 125, Engineering Graphics	
Engineering 183, AutoCAD I-Computer Aided Drafting	3
Engineering 184, AutoCAD II-Computer Aided Drafting	3
Engineering 185, AutoCAD III-Computer Aided Drafting	3
Engineering 186, AutoCAD 3-Dimensional Drawing	3
Select 6 units from the following list:	6
Engineering 012, 027, 051, 110, 114, 115, 124, 142, 154,	
187, 191, 193 and 228.	
Total	24.5

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	2
Engineering 122, Engineering Drawing OR—	3
Engineering 125, Engineering Graphics	
Engineering 124, Advanced Drawing	3
Engineering 183, AutoCAD I-Computer Aided Drafting	3
Engineering 130A, CATIA Solid Modeling I	3
Engineering 140A, ProEngineer Solid Modeling I	
Engineering 188, Machine Technology Survey	3
Select six (6) additional units from the following list:	6
Engineering 027, 051, 110, 114, 130A, 130B, 140A, 140B;	
Manufacturing Technology 028, Mathematics 160.	
Total	23

Option II-Architectural/Civil Engineering/ Construction Drafting and Design (sac.enrce.as) (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 associate degree and certificate:

Course Un	iits
Engineering 100B, Introduction to Architecture/Civil Engineering/	2
Construction (AEC)	
Engineering 112, Society & the Built Environment	3
Engineering 142, Architecture/Engineering/Construction	4
Drafting Standards	
Engineering 154, Architecture/Civil Engineering/Construction (AEC)	3
Parametric and BIM Applications	
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
Total	25

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:

Course	Units
Engineering 100A, Introduction to Engineering	2
Engineering 122, Engineering Drawing OR—	3
Engineering 125, Engineering Graphics	
Engineering 130A, CATIA Solid Modeling I	3
Engineering 140A, ProEngineer Solid Modeling I	
Engineering 132, Introduction to Robotics	3
Engineering 183, AutoCAD I-Computer Aided Drafting	3
Engineering 188, Machine Technology Survey	3
Manufacturing Technology 028, Basic Metals Technology	3
Physics 217, Engineering Physics I OR—	4
Physics 279, College Physics I	
Select 3 units from the following list:	3
Business 120; Engineering 110, 114, 124, 130B, 140B, 228,	
240, 250, 250L, 281; Management 122.	
Total	27

ENERGY ANALYSIS DEGREE (sac.enea.as) AND CERTIFICATE (sac.enea.cert)

This certificate and 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.

Major requirements for the associate degree and certificate:

Course	Units
Engineering 012, Blueprint Reading	3
Engineering 100B, Introduction to Architecture/Civil Engineering	<u>/</u> 2
Construction (AEC)	
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	3
Total	17

MECHANICAL 3D SOLID MODELING CAD DEGREE (sac.engr3d.as) AND CERTIFICATE (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 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 OR Engineering 125, Engineering Graphics	3
Select 2 courses from the following:	3-3
Engineering 130A, CATIA Solid Modeling I (3) —AND—	
Engineering 130B, CATIA Solid Modeling II (3)	
Engineering 140A, ProEngineer Solid Modeling I (3) —AND—	
Engineering 140B, ProEngineer Solid Modeling II (3)	
Total	18

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		Units
English 102, Literature & Composition		4
English 102H, Honors Literature & Composition		7
English 231-232, Survey of English Literature		
English 241-242, America in Literature		6
English 271-272, Survey of World Literature		
—AND —		
Electives from list below		12
	Total	22

12 units of electives to be selected from any 200 or above English language or literature class including those above not taken as part of the 6-unit requirement. 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

(Listed after Business Management)

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 De-



velopment, 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 Un	nits
Anthropology 100, Introduction to Cultural Anthropology	3
Anthropology 100H, Honors Introduction to Cultural Anthropology	
Asian American Studies 101, Introduction to Asian American Studie	s 3
Black Studies 101, Introduction to Black Studies	3
Chicano Studies 101, Introduction to Chicano Studies	3
Ethnic Studies 101, Introduction to Ethnic Studies	3
Ethnic Studies 101H, Honors Introduction to Ethnic Studies	Ů
Ethnic Studies 102, The Borderlands: Cultural Context and	_
Intercultural Relations —OR—	3
Ethnic Studies 102H, Honors The Borderlands: Cultural Context and Intercultural Relations	d
Psychology 100, Introduction to Psychology	3
Psychology 100H, Honors Introduction to Psychology	
(some sections of interest to Black, Asian-American, and Chicano	0

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

FAMILY AND CONSUMER STUDIES/ HOME ECONOMICS DEGREE (sac.fcs.aa)

Studies)

The associate degree curriculum in home economics prepares students to transfer into a curriculum at a four-year institution leading to a baccalaureate degree. The educational background in art, science and consumer affairs prepares the home economist for a wide variety of career opportunities in business, industry, education and government. Areas of emphasis include fashion merchandising, interior design, secondary education, early childhood education, food in business and industry, consumer services and textiles and clothing.

Major requirements for the associate in arts degree:

Course	Units
Family & Consumer Studies 120, Life Management	3
Fashion Design Merchandising 103, Fashion Selection	3
Fashion Design Merchandising 104, Textiles	3
Fashion Design Merchandising 105A, Beginning Sewing (3)	2-3
Fashion Design Merchandising 105B, Intermediate Sewing (2)	
Nutrition & Food 115, Nutrition	3
Nutrition & Food 116, Principles of Food Preparation	3
Human Development 107, Child Growth & Development	3
Total	20-21

Recommended electives: Chemistry 219; Economics 120, 121; English 101 or 101H; Nutrition and Food 110; Psychology 100 or 100H; Sociology 100 or 100H.

Students interested in pursuing a career in home economics at California State University, Long Beach or California State Polytechnic University, Pomona should take the lower division major requirements as shown above for the Associate in Arts degree. To verify current general education support courses, check with the division counselor and the transfer school.

FASHION DESIGN AND CUSTOM CLOTHING DEGREE (sac.fdc.aa) AND CERTIFICATE (sac.fdc.ca)

The associate degree and certificate curriculum in fashion design and custom clothing provides the basic aesthetic concepts and technical skills necessary for immediate employment in the fashion related fields of design and dressmaking or to transfer to a university program. The program prepares students for entry-level positions in apparel designing for custom clients, theater costuming, and manufacturer's operations. Completion of the certificate or degree enhances ability to obtain a position and advance in the fashion design field.

Major requirements for the associate degree and certificate:

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 106, Advanced Sewing (3)	
Fashion Design Merchandising 106A, Advanced Sewing I (1.5)	3
Fashion Design Merchandising 106B, Advanced Sewing II (1.5)	
Fashion Design Merchandising 108, RTW Quality Analysis	3
Fashion Design Merchandising 109, Pattern Design	3.5
Fashion Design Merchandising 111A, Fashion Sketching	2
Fashion Design Merchandising 111C, Fashion Portfolio Developr	nent 2
Fashion Design Merchandising 112, Pattern Drafting	3.5
Fashion Design Merchandising 113, Fashion Draping	3.5
Fashion Design Merchandising 213, Apparel Line Production	2
Fashion Design Merchandising 214, Manufacturing & Grading	2
Total	39.5

Electives: Fashion Design Merchandising 005, 057, 098, 105A, 105B, 111B, 198, 212, 215, 216, 216L, 299.

To receive this degree, grades in major courses must be "C" or better.

Apparel Production Technician Option Degree (sac.fdcap.aa) and Certificate (sac.fdcap.ca)

This vocational program provides the technical skills and product background necessary to work under the direction of a designer in technical apparel jobs such as pattern making, grading and sketching in ready-to-wear or theater costumes. Emphasis is placed on developing vocational skills including computer applications current to fashion design manufacturing.



Course	Units
Fashion Design Merchandising 005, Fashion Laboratory	0.5-1
Fashion Design Merchandising 005A, Fashion Laboratory	0.5-1
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 106, Advanced Sewing (3)	
Fashion Design Merchandising 106A, Advanced Sewing I (1.5)	3
Fashion Design Merchandising 106B, Advanced Sewing II (1.5)	
Fashion Design Merchandising 108, RTW Quality Analysis	3
Fashion Design Merchandising 109, Pattern Design	3.5
Fashion Design Merchandising 111A, Fashion Sketching	2
Fashion Design Merchandising 111B, Fashion Illustration	2
Fashion Design Merchandising 111C, Fashion Portfolio Developm	nent 2
Fashion Design Merchandising 112, Pattern Drafting	3.5
Fashion Design Merchandising 113, Fashion Draping	3.5
Fashion Design Merchandising 212, Advanced Draping	2
Fashion Design Merchandising 213, Apparel Line Production	2
Fashion Design Merchandising 214, Manufacturing & Grading	2
Fashion Design Merchandising 215, Computer Fashion Illustration	on 1
Art 192A, Digital Illustration with Illustrator	3
Fashion Design Merchandising 216, Computer Pattern Design,	1
Grading & Marking	
Total 4	0-42.5

Electives: Fashion Design Merchandising 005, 058, 098, 216L, or 299.

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:

Course	Jnits
Fashion Design Merchandising 052, Knit Sewing	2
Fashion Design Merchandising 055, Children's Clothing	
Fashion Design Merchandising 056, Basic Sewing and Alterations	3 1
Fashion Design Merchandising 057, Introduction to	
Pattern Drafting	3.5
Fashion Design Merchandising 103, Fashion Selection	3
Fashion Design Merchandising 105A, Beginning Sewing (3)	2-3
Fashion Design Merchandising 053, Introduction to Sewing (2)	2 0
Fashion Design Merchandising 105B, Intermediate Sewing	2
Fashion Design Merchandising 106, Advanced Sewing (3)	
Fashion Design Merchandising 106A, Advanced Sewing I (1.5)	3
Fashion Design Merchandising 106B, Advanced Sewing II (1.5)	
Fashion Design Merchandising 107, Custom Tailoring	2
Subtotal 18.5	-19.5
Select 3 or more units from the following:	3
Fashion Design Merchandising 058, Decorative Apparel (0.5)	
Fashion Design Merchandising 102, Promotion & Coordination	(3)
Fashion Design Merchandising 104, Textile Fibers & Fabrics (3)	
Fashion Design Merchandising 109, Pattern Design (3.5)	
Fashion Design Merchandising 113, Fashion Draping (3.5)	
Fashion Design Merchandising 299, Cooperative Work	
Experience Education (1-4)	
Business 170, Principles of Small Business Management (3)	
Total 2	2-24

^{**}Electives: Fashion Design Merchandising 005, 098, 198.

FASHION MERCHANDISING DEGREE (sac.fdm.aa) AND CERTIFICATE (sac.fdm.ca)

The associate degree and certificate curriculum in fashion merchandising is designed to prepare professionally trained students for a career in the fashion industry or to transfer to a university program. The program places emphasis on developing a student's fashion sense and analytical abilities in such areas as sales, distribution, buying, merchandising, promotion, and coordination of fashion items.

Major requirements for the associate degree and certificate:

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 108, RTW Quality Analysis	3
Fashion Design Merchandising 125, Display Merchandising	3
Fashion Design Merchandising 299, Cooperative Work	1-4
Experience Education	
Subtotal	22-25
In addition, select two or more courses from the following list:	3
Business 120, Principles of Management (3)	
Business 150, Introduction to Computing & Application Softw	/are (3)
Business 170, Principles of Small Business Management (3)	
Computer Science 163, Microsoft Excel (3)	
Marketing 114, Professional Selling (3)	
Fashion Design Merchandising 059, Fashion Modeling (1)	
Fashion Design Merchandising 111A, Fashion Sketching (2)	
Total	25-29

Electives: Business 126; Fashion Design Merchandising 098, 111B, 111C, 198.

Note: Degree students should select general education course requirements that include Psychology, Sociology, and Communication Studiess, because of the human relationship skills essential to this vocation.

To receive this degree, grades in major courses must be "C" or better.

FIRE TECHNOLOGY

Administrative Fire Services Chief Officer Degree (sac.ftco.as) and Certificate (sac.ftco.ca)

(Formerly: Administrative Fire Services Administrative Assistant **Degree 1505)**

The Administration 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.

Major requirements for the associate degree and certificate:

Course	Units
Fire Academy 262A, Fire Management 2A,	1
Leadership & Effective Communications	
Fire Academy 262B, Fire Management 2B,	1
Financial Management	
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,	1
Management of Major Hazmat Incidents	



Fire Academy 272C, Fire Command 2C,	1
High Rise Fire Tactics	
Fire Academy 272D, Fire Command 2D,	1
Planning for Large Scale Disasters	
Fire Academy 273B, Fire Command 2E,	1
Wildland Firefighting Tactics	
Core Total	10
In addition, select a minimum of 9 units from the following list	9
(classes in this area may be substituted with similar classes):	
Fire Technology 101, Fire Protection Organization (3)	
Fire Technology 102, Fire Behavior & 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 Person	nel (3)
Fire Academy 060, Basic Fire Academy (3)	
Total	19

Fire Administration Option Degree (sac.ftfa.as) and Certificate (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 it may be used to satisfy the requirements of section F of the general education requirements for graduation."

Major requirements for the associate degree and certificate:

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	1
Fire Technology 101, Fire Protection Organization	3
Subtotal	11.8
In addition, select a minimum of 9 units from the following list	9
(classes in this area may be substituted with similar classes):	
Fire Technology 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	า (3)
Fire Technology 106, Fire Protection Equipment & Systems (3)
Fire Technology 121, Physical Fitness for Public Safety Person	nnel (4)
Fire Academy 060, Basic Fire Academy (12)	
Total	20.8

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 Degree (sac.ftpfs.as) and Certificate (sac.ftpfs.ca)

The public fire service program is designed to provide occupational preparation in federal, state, local and private fire protection agencies and for those desiring to enter fire service work in such areas as firefighting with emphasis in fire prevention, inspection and safety practices. Completion of the Fire Academy 060 course is recognized by the California State Board of Fire Services as meeting the requirements for Certified Firefighter 1 Training Academy and college and university preparation. The Basic Fire Academy 060 credits are nontransferable. Prerequisites to the Basic Fire Academy include: All Fire Technology core courses and students must meet NFPA 1582 medical standards, pass physical ability test and achieve specific reading, and writing skills.

Major requirements for the associate degree and 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 Personne	el 4
Total	36.6



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	1
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	1
Fire Technology 101, Fire Protection Organization	3
Fire Technology 102, Fire Behavior & Combustion	3
Subtotal	11.3
In addition, select a minimum of 3 units from the following list (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 Fire Technology 106, Fire Protection Equipment & Systems (3) Fire Technology 121, Physical Fitness for Public Safety	` '
Personnel (4) Fire Academy 060, Basic Fire Academy (12)	
Total	14.3

FOREIGN LANGUAGES

(See Modern Languages)

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	nits
Geography 100, World Regional Geography	
Geography 100H, Honors World Regional Geography	3
Geography 101, Physical Geography	3
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	

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 100H, 103;

Economics 120, 121;

History 101 or 101H, 102 or 102H, 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 150H, 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 19

9

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
Geology/Earth Science 150, Introduction to Oceanography/	
Geology/Earth Science 150H, Honors Introduction to Oceanog	raphy
Geology 201, Introduction to Historical Geology	4
Chemistry 219, General Chemistry/	5
Chemistry 219H, Honors General Chemistry	
Electives	8
Total	24

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



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	Units
History 101, World Civilizations to the 16th Century	3
History 101H, Honors World Civilizations to the 16th Century	
History 102, World Civilizations Since the 16th Century —OR—	3
History 102H, Honors World Civilizations Since the 16th Century	
History 120, United States to 1865 —OR—	3
History 120H, Honors United States to 1865	
History 121, United States Since 1865 —OR—	3
History 121H, Honors United States Since 1865	
Required Electives: Choose 3 electives from the following group. Must include at least one History class.	9
Economics 120; Geography 100 or 100H; History 123, 124 or 124H, 127, 128H, 133, 146, 150-151, 163; Philosopy 11 118; Political Science 101 or 101H, 200, 201, 220.	2,

HOME ECONOMICS

(See Fashion Design Merchandising, or Nutrition & Food)

HOSPITAL PHARMACY TECHNOLOGY

(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

21

Total

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	3
Early Learning & Development	
Human Development 110, Child, Family & Community (DS2)	3
Human Development 112, Health, Safety & Nutrition for Children	3
Human Development 116A, Infant/Toddler Growth & Development	3
(DS4)	
Human Development 116B, Programming for Infants and Toddlers	3
(DS4)	
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 298B, Practicum in Infant/Toddler Program	ns 3.5
Total	30.5

PRESCHOOL CHILD OPTION DEGREE (sac.hudpc.ca) AND CERTIFICATE (sac.hudpc.ca)

Course	Units
Human Development 107, Child Growth & Development (DS1)	3
Human Development 108A, Observation & Assessment for	3
Early Learning & Development	
Human Development 110, Child, Family & Community (DS2)	3
Human Development 111A, Principles & Practices of Teaching	3
Young Children (DS3)	
Human Development 111B, Introduction to Curriculum for	3
Young Children (DS3)	
Human Development 112, Health, Safety & Nutrition for Children	3
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 in	3
Young 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 Ur	nits
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 Schools	1
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	
Total 30	-33

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

(See Engineering)

INSTRUCTIONAL AIDE

(See Human Development-School Age Options)

INSTRUCTIONAL AIDE-EARLY CHILDHOOD

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

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	3
Select ONE course from the following:	
Business 100, Fundamentals of Business	
—OR —	. 3
Entrepreneurship 100. Introduction to Innovation and Entrepren	eurship

Select ONE course from the following:

Business 222, Business Writing
OR
OR
Management 122, Business Communications

Sequence Courses:

(All courses in all sequences must be completed to earn this degree.)

Marketing S	equence	
D ! 1 11	The Oleheli-eties	- £ N / ± :

business 141, The Globalization of Marketing	- 1
Business 142, International Market Research & Planning	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 of Credit	1
Business 164, Alternative Financing Techniques for	1
International Trade	
Business 165, International Trade Finance & Insurance	1
Business 166, Financing an Import/Export Business	1

Law Sequence

East Coquestion	
Business 147, International Commercial Agreements &	1
Distribution Law	
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–Beginning	1
Business 113, International Transportation	1
Business 114, International Documentation &	1
Supply Chain Management	

Import Sequence

Business	180,	Finding &	Evaluating Products for Import	1
Business	182,	Classifying	g Imports and Clearing U.S. Customs	1

Select ONE course from the following:

Accounting 101, Financial Accounting (4)
Business 120, Principles of Management (3)
Management 120, Principles of Management (3)
Marketing 113, Principles of Marketing (3)

Total 32-33

3-4

INTERNATIONAL BUSINESS CERTIFICATE (sac.ib.ca)

Core Required Course	Units
Business 106, Culture & International Business -	3
Kiss, Bow or Shake Hands	
Business 125, Introduction to International Business	3

Sequence Requirements

(All sequence courses must be completed to earn this certificate.)

Marketing Sequence

a	
Business 141, The Globalization of Marketing	1
Business 142, International Market Research & Planning	1
Business 143, Packaging, Pricing & Promoting Products/	1
Services for Export	
Business 145, Channels of Distribution in International Markets	1

Financial Sequence

Business 163, International Methods of Payment & Letters of Credit	1
Business 164, Alternative Financing Techniques for	1
International Trade	
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	
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-Beginning	1
Business 113	International Transportation	1
Business 114	International Documentation &	1
Supply Cha	in Management	

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)

JOURNALISM

(See Communications and Media Studies)

KINESIOLOGY DEGREE (sac.kin.aa)

(Formerly Exercise Science Degree)

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.

	Total	31.5 Units
Elective Courses		6 Units
Performance Courses		5 Units
Required Core Courses		20.5 Units

Required Core Courses	Jnits
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 Resuscitatio	n 2
Kinesiology Sports Medicine 101, Introduction to Sports Medicine	= 3
Kinesiology Sports Medicine 150, Athletic Training Internship	2
Kinesiology Professional 101, Introduction to Kinesiology	4
Biology 239, General Human Anatomy (4)	3-4
Biology 249, Human Physiology (4)	0 -

Performance Courses (5 Units)

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 122, Sports Officiating-Spring and Summer Sports (2)

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)

KINESIOLOGY COACHING CERTIFICATE (sac.knc.cert)

(Formerly Exercise Science Coaching Certificate)

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

Course	Units
Kinesiology Health Education 101, Healthful Living	3
Kinesiology Health Education 105, First Aid & Personal Safety	1.5
Kinesiology Health Education 107, Cardiopulmonary Resuscitat	ion 2
Kinesiology Professional 121, Sports Officiating - Fall Sports OR OR OR	2
Kinesiology Professional 122, Sports Officiating - Spring & Sum Sports	mer
Kinesiology Professional 125, Sports Psychology	3
Kinesiology Sports Medicine 101*, Introduction to Sports Medic	ine 3
Kinesiology Sports Medicine 150*, Athletic Training Internship	2
Total	16.5

^{*}Kinesiology Sports Medicine 101 & 150 must be taken together.

KINESIOLOGY FITNESS CERTIFICATE (sac.knf.cert)

(Formerly Exercise Science Fitness Certificate)

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

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	on 2
Kinesiology Fitness 100, Personal Fitness Evaluation	0.5
Kinesiology Fitness 109, Circuit Training	0.5
Kinesiology Fitness 119, Strength Lab	0.5

Choose 6 units from the following classes:

Kinesiology Aerobic Fitness 140, Walking/Jogging for Fitness (0.5 or 1)

Kinesiology Aerobic Fitness 146, Stability Ball Training for Fitness (1)

Kinesiology Aerobic Fitness 150, Stretch, Flex & Tone (0.5 or 1)

Kinesiology Aerobic Fitness 155, Aerobics (0.5 or 1)

Kinesiology Aerobic Fitness 156, Cardio Boxing (0.5 or 1)

Kinesiology Aerobic Fitness 157, Cardio Pump (0.5)

Kinesiology Aerobic Fitness 158, Step Aerobics (0.5 or 1)

Kinesiology Aerobic Fitness 160, Agua Aerobics (0.5 or 1)

Kinesiology Activities 170, Yoga (0.5 or 1)

Total

6

16



KINESIOLOGY OFFICIATING CERTIFICATE (sac.kno.cert)

(Formerly Exercise Science Officiating Certificate)

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

Course Un	iits
Kinesiology Professional 121, Sports Officiating - Fall Sports	
Kinesiology Professional 122, Sports Officiating - Spring & Summer	٢
Sports —OR—	2
Kinesiology Professional 123 Officiating Football Rule and Mechani	cs
Kinesiology Professional 125, Sports Psychology	3
Kinesiology Sports Medicine 101*, Introduction to Sports Medicine —AND —	3
Kinesiology Sports Medicine 150*, Athletic Training Internship	2
Kinesiology Health Education 105, First Aid & Personal Safety	1.5
Kinesiology Health Education 107, Cardiopulmonary Resuscitation	2
Choose 4 units from the following classes:	4
Kinesiology Activities 202, Basketball-Off Season (1)	

Kinesiology Activities 211, Baseball-Off Season (1)

Kinesiology Activities 220, Basketball-Activity (0.5)

Kinesiology Activities 220, Basketball-Activity (1)

Kinesiology Activities 260, Soccer-Activity (0.5)

Kinesiology Activities 260, Soccer-Activity (1)

Kinesiology Activities 271, Softball-Off Season (1)

Kinesiology Activities 290, Volleyball-Activity (0.5)

Kinesiology Activities 290, Volleyball-Activity (1)

Kinesiology Intercollegiate Athletics 201, Baseball Men (3)

Kinesiology Intercollegiate Athletics 202, Basketball Men (3)

Kinesiology Intercollegiate Athletics 204, Football-Men (3)

Kinesiology Intercollegiate Athletics 211, Softball-Women (3)

Kinesiology Intercollegiate Athletics 212, Basketball-Women (3)

Kinesiology Intercollegiate Athletics 213, Volleyball Women (3)

Kinesiology Intercollegiate Athletics 216, Soccer Men (3)

Kinesiology Intercollegiate Athletics 220, Soccer Women (3)

17.5-18

KINESIOLOGY SPORTS MEDICINE CERTIFICATE (sac.knm.cert)

(Formerly Exercise Science Medicine Certificate)

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

Course	Inits
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	n 2
Kinesiology Sports Medicine 101*, Introduction to Sports Medicin —AND —	e 3
Kinesiology Sports Medicine 150*, Athletic Training Internship	2
Kinesiology Professional 125, Sports Psychology	3
Total	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 100H, 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 100H; Education 100; English 104 or 104H, 241, 242, 245, 246; Environmental Studies 200; Ethnic **Studies** 101 or 101H, 102 or 102H; **History** 118, 120 or 120H, 121 or 121H, 122, 123, 124 or 124H, 125, 127, 128H, 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 $\textbf{Communications}\ 101,\ 103,\ 104,\ 105\ or\ 105H; \textbf{Theatre Arts}\ 100;$ Women's Studies 101, 102

^{*}Kinesiology Sports Medicine 101 & 150 must be taken together.



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 100H, 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 101H, 102 or 102H, 103, 104, 110, 111, 211; Photography 150; Television/Video Communications 101, 103, 104, 105 or 105H; 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 202H; History 101 or 101H, 102 or 102H, 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 102H, 195A, 195B, 201 or 201H, 202 or 202H; 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.

Rusiness

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 219H

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, 120; Kinesiology, Professional 101, 121, 122, 125, 130, 140, 150, 155, 160, 165, 170, 175, 180, 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, 109, 110, 111, 112, 113A, 113B, 115A, 115B, 116, 117, 118, 119A, 119B, 120, 121, 122, 123, 124, 130, 132, 140, 201A, 201B, 202A, 202B, 204A, 204B, 205, 206A, 206B, 209, 210, 213, 214, 215A, 215B, 216, 218, 219A, 219B, 220, 221, 230, 232, 240A, 240B, 270, 296, 297, 298; Kinesiology, Activities 107, 123, 130, 132, 133, 134, 140, 141, 150, 155, 160, 169, 170, 171, 180, 185, 200, 202, 210, 211, 220, 226, 227, 231, 232, 235, 236, 240, 245, 260, 261, 262, 265, 270, 271, 280, 281, 290, 291, 292; Kinesiology, Adaptive Activities 201, 202, 205, 206, 208, 211, 220; Kinesiology, Aerobic Fitness 140, 143, 144, 146, 150, 155, 156, 157, 158, 160; Kinesiology, Aquatics 201, 204, 206, 207; Kinesiology, Fitness 100, 101, 102, 103, 108, 109, 110, 115, 116, 119, 120, 124, 125, 126, 127, 128, 145, 147; Kinesiology, Intercollegiate Athletics 201, 202, 203, 204, 205, 206, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222;

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, 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 180H, 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 100H, 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 100H, 102 or 102H; History 101 or 101H, 102 or 102H, 105, 118, 120 or 120H, 121 or 121H, 122, 123, 124 or 124H, 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 101H, 200 or 200H, 201, 220, 235; **Psychology** 100 or 100H, 140, 157, 170, 200, 219, 230, 240, 250; Science 200; Sociology 100 or 100H, 112, 140 or 140H, 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 DEGREE AND CERTIFICATE

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 Paraprofessio	nals:
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 101H, 103 or 103H, 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 100H.

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 OR OR OR	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* —OR—	3
Library Technology 102, Information Sources for Paraprofessio Tools and Techniques*	nals:
Library Technology 053, Library Internship	3
Total	20-21

^{*}Courses not taught every semester.

MANAGEMENT DEGREE (sac.mgt.aa) AND **CERTIFICATE** (sac.mgt.ca)

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



Units

certificate program provides practical skills for the student within specific areas of management.

Management Degree (sac.mgt.aa)

Courses:	Units
Accounting 101, Financial Accounting	
Business 100, Fundamentals of Business	3
Business 222, Business Writing	3
Select ONE of the following:	3
Business 120, Principles of Management (3)	
Management 120, Principles of Management (3)	
Select TWO courses from the following:	6
Business 105, Legal Environment of Business (3)	
Business 121, Human Relations & Organizational Behavior (3)	
Business 125, Introduction to International Business (3)	
Business 150, Introduction to Information Systems and Applications (3)	
Management 125, Organizational Leadership (3)	
Marketing 113, Principles of Marketing (3)	
Total	19

General Management Certificate (sac.mgt.cert)

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:	
Business 222, Business Writing (3)	3
Management 122, Business Communications (3)	
Select TWO courses from the following:	6
Business 105, Legal Environment of Business (3)	
Business 125, Introduction to International Business (3)	
Business 150, Introduction to Information Systems and Applications (3)	
Marketing 113, Principles of Marketing (3)	
Select ONE course from the following:	
Business 121, Human Relations & Organizational Behavior (3)	3
Management 121, Human Relations & Organizational Behavio	r (3)
Total	19

Retail Management Degree (sac.mgtre.aa)

Courses:	Units
Accounting 101, Financial Accounting	4
Business 080, Business Mathematics	3
Business 120, Principles of Management —OR —	3
Management 120, Principles of Management	_
Business 121, Human Relations & Organizational Behavior —OR—	3
Management 121, Human Relations & Organizational Behavior	
Business 222, Business Writing _OR _	3
Management 122, Business Communications	
Computer Science 100, The Computer & Society	3
Management 135, Human Resource Management	3
Marketing 111, Principles of Retailing	3
Marketing 113, Principles of Marketing	3
Communication Studies 101, Introduction to	
Interpersonal Communication	3
Communication Studies 101H, Honors Introduction to	
Interpersonal Communication	
Total	31

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 —OR—	3
Management 120, Principles of Management	
Business 121, Human Relations & Organizational Behavior —OR—	3
Management 121, Human Relations & Organizational Behavior	
Business 222, Business Writing OR —	3
Management 122, Business Communications	
Computer Science 100, The Computer & Society	3
Management 135, Human Resource Management	3
Marketing 111, Principles of Retailing	3
Marketing 113, Principles of Marketing	3
Communication Studies 101, Introduction to	
Interpersonal Communication —OR—	3
Communication Studies 101H, Honors Introduction to	
Interpersonal Communication	
Total	31

Entertainment Industry Management Certificate (sac.mgten.cert)

Course

Course	011110
Counseling 116, Career/Life Planning and Personal Exploration	3
Management 105, Cooperative Work Experience Education	4
- Occupational	
Management 120, Principles of Management	3
Management 125, Organizational Leadership —OR—	3
Counseling 125, Exploring Leadership	
Select THREE units from the following:	3
Management 040, Professional Development – Exploring Leadership (1)	
Management 041, Professional Development – The Business of Show Business (1)	
Management 105, Cooperative Work Experience Education – Occupational (2)	
Management 121, Human Relations & Organizational Behavio	r (3)
Management 135, Human Resource Management (3)	
Total	16

Human Resource Management Certiricate (sac.mgtr.cert)

Course	Units
Management 120, Principles of Management	3
Management 121, Human Relations & Organizational Behavior	3
Management 135, Human Resource Management	3
Business 105, Legal Environment of Business	3
Total	12



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	
Market Validation (2)	
Entrepreneurship 109, Powerful Presentations (2)	
Total	13-14

Supervision Certificate (sac.mgtsv.cert)

Course	Units
Management 120, Principles of Management	3
Management 121, Human Relations & Organizational Behavior	3
Management 122, Business Communications	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
Manufacturing Technology 058, Basic Machining Concepts & Operation	3
Manufacturing Technology 071, CNC Program Writing	4
Manufacturing Technology 114, Geometric Dimensioning & Tolerancing	3
Total Core Requirements	15

CAD/CAM Option Degree (sac.mfgca.as) and Certificate (sac.mngca.ca)

The associate degree and certificate curriculum in manufacturing technology CAD/CAM is designed to provide training in concepts of Computer Aided Design/Computer Aided Manufacturing (CAD/CAM) resulting in the completion of machine-ready CNC Programs. Coursework in CAD, CNC, and CAM is combined to prepare successful graduates for employment as CAD designers, CAD/CAM System operators, and CNC programmers.

Major requirements for the associate degree and certificate:

Course	Units
Manufacturing Technology Core Requirements	15
Manufacturing Technology 073, Mastercam-2D Geometry,	
2D Toolpaths	3
Manufacturing Technology 074, CNC Milling Center Set Up &	
Operation	_
—OR —	3
Manufacturing Technology 075, Mastercam-3D Geometry, 3-D	
Surfaces	
Manufacturing Technology 076, CNC Turning Center Set Up &	3
Operation	
Manufacturing Technology 077, Mastercam-3D Toolpath and	3
CAM Applications	
Manufacturing Technology 103, Solidworks Basic Solid Modelin	g 3
Manufacturing Technology 104, Solidworks Intermediate	3
Solid Modeling	

Manufacturing Technology 105, Solidworks Advanced	3
Solid Modeling	
Manufacturing Technology 106, Solidworks Drawing	3
Electives from the list	3
Total	42

Select from the following electives: Manufacturing Technology 130A, 130B. 188.

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

The associate degree and certificate curriculum in manufacturing technologycomputer 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
Manufacturing Technology 059, Advanced Turning Concepts &	3
Operations	
Manufacturing Technology 076, CNC Turning Center	3
Set Up & Operation	
Manufacturing Technology 078, Mastercam Lathe	3
Manufacturing Technology 086, Advanced CNC Lathe Programin	g, 3
Set Up & Operation	
Electives from the list	9
Total	36

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
Manufacturing Technology 059, Advanced Turning Concepts & Operations	3
Manufacturing Technology 068, Advanced Milling Concepts & Operations	3
Manufacturing Technology 074, CNC Milling Center Set Up & Operation	3
Manufacturing Technology 076, CNC Turning Center Set Up & Operation	3
Manufacturing Technology 094, CNC Horizontal Mill Set Up & Operation	3
Electives from the list	6
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
Manufacturing Technology 068, Advanced Milling Concepts & Operations	3
Manufacturing Technology 073, Mastercam-2D Geometry, 2D Toolpaths	3
Manufacturing Technology 074, CNC Milling Center Set Up & Operation	3
Manufacturing Technology 084, Advanced CNC Milling Center Set Up & Operation	3
Manufacturing Technology 094, CNC Horizontal Mill Set Up & Operation	3
Electives from the list	6
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
Manufacturing Technology 073, Mastercam-2D Geometry,	3
2D Toolpaths	
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	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.mngcm.as) and Certificate (sac.mngcm.ca)

(Formerly: Conventional Machining Option Degree 0262 and Certificate 0298)

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 Concepts & Operations		3
Manufacturing Technology 068, Advanced Milling Concepts & Operations		3
Manufacturing Technology 069, Job Shop Skills		3
Welding 008, Oxyacetylene-Arc Welding		3
Electives from the list		9
	Total	36

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:

Course	Units
Manufacturing Technology 103, Solidworks Basic Solid Modeling	3
Engineering 103, Solidworks Basic Solid Modeling	
Manufacturing Technology 104, Solidworks Intermediate Solid	
Modeling	3
—OR—	U
Engineering 104, Solidworks Intermediate Solid Modeling	
Manufacturing Technology 105, Solidworks Advanced	
Solid Modeling	0
—OR—	3
Engineering 105, Solidworks Advanced Solid Modeling	
Manufacturing Technology 106, Solidworks Drawings	3
Total	12



MARKETING DEGREE (sac.mktg.aa) AND **CERTIFICATE** (sac.mktg.cert)

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)

Contemporary Marketing Degree (sac.mktg.a	a)
Core Courses:	Units
Marketing 113, Principles of Marketing	3
Business 222, Business Writing	3
Select ONE course from the following:	3
Business 100, Fundamentals of Business (3)	3
Entrepreneurship 100, Introduction to Innovation and	3
Entrepreneurship (3)	
Sequence Requirements:	
(All sequence courses must be completed to earn this degree)	
Sales Sequence:	
Marketing 120, Understanding Consumer Behavior – Getting th	em to
Buy, Buy, Buy	1
Marketing 121, Negotiating - Getting to a Win-Win	1
Marketing 122, Sales Strategies that Build Business Relationsh	ips &
Increase Sales	2
21st Century Marketing Sequence:	
Marketing 123, Marketing and Technology - Trends and Cutting	
Edges	´ 1
Marketing 124, Cause Marketing and Public Relations - Doing V	Well by
Doing Good	1
Entrepreneurship 105, Social Media, Bootstrapping, and	2
Market Validation	
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/Ser	vices
for Export	1
Business 145, Channels of Distribution in International Markets	1
Advertising & Distribution Sequence	
Marketing 125, Advertising & Promotion - Get the Word Out & H	Keep
your Customers Buying	2
Marketing 126, Distributing Products & Services - Reaching	
Customers Where They Shop	2
Capstone Course	
Entrepreneurship 110, Capstone Business Simulations	3
Select ONE course from the following:	2-3
Business 125 Introduction to International Business (3)	
Business 127, Introduction to E-Commerce (3)	
Entrepreneurship 107, Money, Finance and Accounting for	
Entrepreneurs (2)	
Entrepreneurship 109, Powerful Presentations (2)	
Marketing 127, Introduction to E-Commerce (3)	
Total	30-31

Contemporary Marketing Certificate (sac.mktg.cert)

Core Courses:

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 th	em to
Buy, Buy, Buy	1
Marketing 121, Negotiating - Getting to a Win-Win	1
Marketing 122, Sales Strategies that Build Business Relationsh	ips &
Increase Sales	1
21st Century Marketing Sequence:	
Marketing 123, Marketing and Technology - Trends and Cutting	ı
Edges	1
Marketing 124, Cause Marketing and Public Relations - Doing V	Vell by
Doing Good	1
Entrepreneurship 105, Market Validation and Bootstrap Market	ing 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/Ser	vices
for Export	1
Business 145, Channels of Distribution in International Markets	1
Advertising & Distribution Sequence	
Marketing 125, Advertising & Promotion - Get the Word Out & F	Кеер
your Customers Buying	2
Marketing 126, Distributing Products & Services - Reaching	
Customers Where They Shop	2
Total	18

Unite

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	
—OR —	3
Management 122, Business Communications	
Marketing 113, Principles of Marketing	3
Marketing 114, Professional Selling	3
Communication Studies 101, Introduction to	
Interpersonal Communication	
-OR-	3
Communication Studies 101H, Honors Introduction to	
Interpersonal Communication	
Total	12

3

26



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 baccalaure-ate 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
—OR — Mathematics 180H, Honors Analytic Geometry & Calculus	
Mathematics 185, Analytic Geometry & Calculus	4
Mathematics 280, Intermediate Calculus	4
Mathematics 287, Introduction to Linear Algebra and	
Differential Equations (5)	
— OR — Mathematics 290, Linear Algebra (4) — OR —	4-5
Mathematics 295, Beginning Differential Equations (4)	
Computer Science 120, Introduction to Programming	3
Computer Science 112, Java Programming)	
Total	19-20

MEDICAL ASSISTANT-ADMINISTRATIVE/ CLINICAL DEGREE (sac.ma.as) AND CERTIFICATE (sac.ma.ca)

The associate degree and certificate 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.

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

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
Electives	3

Electives must be selected from the following courses: Business Applications 179, 180, 183, 184; Medical Assistant 020, 056.

Recommended electives: Medical Assistant 001, 020, 056, 098.

Requirements for the certificate:

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

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 201H, 202 or 202H	5-5
French 211, 214 —OR —	2-2
Spanish 101 or 101H, 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
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 100H, 104 or 104H; 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 101H, 102 or 102H, 124 or 124H, 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 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, please consult a SAC counselor for information about course requirements for particular four-year institutions. 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.



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 Theory & Ear Training	4
Music 112, Theory 2	4
Music 114AB, Musicianship	1-1
Music 142, Creating Music with MIDI (1) OR—	1 or 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	g 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 180, String Methods	1
Music 185, Beginning Classical Guitar	1

Music 188, Advanced Classical Guitar Technique & Repertoire

Music 215A, Applied Music (Advanced Private Instruction)

Music 186, Intermediate Classical Guitar

Music 187, Advanced Classical Guitar

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	17

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 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	_
English 101, Freshman Composition	4
English 101H, Honors Freshman Composition	•

Recommended electives: Biology 217.

1

1

1

28-29

Total

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:

- 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.

- 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):
 - a. Biology 239, General Human Anatomy (4 units).
 - b. Biology 249, Human Physiology (4 units).
 - c. Biology 139, Health Microbiology (4 units), (Biology 229, General Microbiology 5 units acceptable).
 - d. English 101 OR 101H, Freshman Composition (4 units)

Please note: 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.

After all prerequisites have been completed the student must complete 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 is for entry to Fall 2013. 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 during the first three weeks of February for Fall admissions and the first three weeks in September 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 A = 10 points, B = 5 points and 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 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:

- 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.
- 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 in to the Nursing 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.
- Malpractice insurance must be maintained throughout 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, if required, 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,
- 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,
- 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 and:

- a. Must be licensed in California as a Vocational Nurse,
- 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		
	ed 101, Nursing Process: Non-Critical Adults	4.5
Nursing-Registere	ed 101L, Nursing Actions: Non-Critical Adults	5.0
*Nursing-Register	red 103, Pharmacological Concepts for Nursing	g 3.0
*Nursing-Register	red 112, Nursing Concepts	1.5
Second Semeste	er	
Nursing-Registere & Children	ed 102, Nursing Process: Women, Parents	4.0
Nursing-Registere & Children	ed 102L, Nursing Actions: Women, Parents	4.6
Course Third Semester	Second Year	Units
	ed 201, Nursing Process: Critical Biological System Needs I	4.0
	ed 201L, Nursing Actions: Critical Biological System Needs I	5.0
**Nursing-Registe	ered 200, Role Transition	2.0
Fourth Semester	r	
0 0	ed 202, Nursing Process: Critical Biological System Needs II	4.0
	ed 202L, Nursing Actions: Critical Biological System Needs II	5.4
	Total	41

- * Nursing 103 and 112 may be taken prior to entering into the first semester of the Nursing Program.
- ** 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 045, 098, 106, 198, 206; 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	Units
Total nursing units required	41
Biology 239, General Human Anatomy	4
*Biology 249, Human Physiology	4
*Biology 139, Health Microbiology	4
English 101 —OR —	4
Honors English 101H	
Communications and Media Studies 102 (at SAC) —OR —	
Communications and Media Studies 145 (at SAC) —OR —	3
Communications 101 or 110 (at SCC)	
Sociology 100	3
Honors Sociology 100H	
Psychology 100	3
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	
Total	72

*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 NI NAC OARD NF. Suite 850 044040 org

P.O. Box 944210	3343 Peachtree Rd, NE, Suite
Sacramento, CA 94244-2100	Atlanta, GA 30326
(916) 322-3350 / www.rn.ca.gov	(404) 975-5000 / www.nlnac.o

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	
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	
Total	19

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	Units
Culinary Arts 062, Basic Techniques of Cooking	2
Nutrition & Food 062, Basic Techniques of Cooking	2
Nutrition & Food 065, Contemporary Nutrition	3
Nutrition & Food 101, The Food System & Career Opportunities	3
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	2
Culinary Arts 110, Food Sanitation & Safety	3
Nutrition & Food 110, Food Sanitation and Safety —AND—	Ü
Culinary Arts 135, Gourmet & International Foods	2
Culinary Arts 145, Foods Presentation Pantry/Garde Mange	2
Culinary Arts 200, Business Practices for Culinary Arts	2
Professionals	
Culinary Arts 299, Cooperative Work Experience Education	1-4
Total	28-31

Hospitality Option Certificate (sac.nutho.ca)

The event planning arts certificate is designed to prepare students with the knowledge and skills necessary to seek employment in the capacity of Event Planner/Coordinator, for professional improvement and retraining or for a wide variety of employment opportunities in the profession.

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	
—OR —	3
Nutrition & Food 110, Food Sanitation and Safety	
Culinary Arts 200, Business Practices for Culinary Arts	2
Professionals	
Culinary Arts 299, Cooperative Work Experience Education	1-4
Business 080, Business Mathematics	3
Kinesiology Health Education 107, Cardiopulmonary Resuscitati	ion 2
Selected two courses from the following:	6
Fashion Design Merchandising 102, Promotion & Coordination	n (3)
Marketing 114, Professional Selling (3)	
Business 170, Principles of Small Business Management (3)	
Total	21-24

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), 800 S. Fredrick Avenue, Suite 200, 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, 444 N. 3rd Street, Sacramento, CA 95814, phone number (916) 322-3394. 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 101L 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 101H, with a grade of "C" or better.
- 3. Oral Communication Skill (3 units) Satisfactory completion of Communication Studies 101 or 101H, 102, 140, 145, 152.
- 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 100H 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 (O.T.A.).
- *Students contemplating transfer to four-year institutions should take these courses.

Admission Procedures:

First Semester

Admission into the program will be based on "first to complete all of the requirements, first admitted". Students who successfully complete all requirements but who are not accepted because of limited class size will have priority in the next class.

Major requirements for the associate degree in Occupational Therapy Assistant.

First	Year		

1 11 01 0011100101	•
Occupational Therapy Assistant 100, Medical Terminology	1
& Documentation	
Occupational Therapy Assistant 101, Foundations of Occupation	4
& Occupational Therapy	
Occupational Therapy Assistant 101L, Exploration of Occupation	2.5
Occupational Therapy Assistant 110, Human Occupation	3
Across Lifespan	

Second Semester

Occupational Therapy Assistant 102, Psychosocial Function	4
& Dysfunction	
Occupational Therapy Assistant 102L, Psychosocial Components	2.5
of Occupation	
Occupational Therapy Assistant 115, Human Disease	2
and Occupation	
Psychology 250, Introduction to Abnormal Psychology	3
Occupational Therapy Assistant 111, Applied Kinesiology	

Second Year

Third Semester	Units
Occupational Therapy Assistant 103, Physical Function	4
& Dysfunction	
Occupational Therapy Assistant 103L, Physical Components	2.5
of Occupation	
Occupational Therapy Assistant 201, Contemporary Models	4
of Occupational Therapy Practice	
Fourth Semester	
Occupational Therapy Assistant 202, Level II Fieldwork - Part I	6
Occupational Therapy Assistant 203, Level II Fieldwork - Part II	6
Units Required for Major	45.5

Graduation Requirements for the Associate Degree in Occupational Therapy Assistant.

Course	Units
Total Occupational Therapy Assistant units required	45.5
Biology 149 or Biology 239 and Biology 249	4-8
Communication Studies (101 or 101H, 102, 140, 145, or 152)	3
English 101 or 101H	4
Psychology 100 or 100H	3
U.S. History or Political Science (American Institutions)	3
Humanities	3
Cultural Breadth	3
Communication & Analytical Thinking	3
Math Requirements-Completion of Math 080 or Math 081	0-4
or above OR score on the SAC math placement test	
indicating placement in a course higher than Math 080.	

Total Units 71.5-79.5

OCEANOGRAPHY

(See Geology)

Unite

OFFICE TECHNOLOGY

(See Business Applications)

PARALEGAL DEGREE (sac.para.aa) AND **CERTIFICATE** (sac.para.ca)

(Formerly: Paralegal Degree 0523)

This American Bar Association (ABA) approved program is designed to prepare the student to work in a paraprofessional capacity as an assistant to an attorney in a law firm, governmental agency or corporation. The paralegal performs many tasks normally handled by an attorney, such as preparing forms and pleadings, interviewing clients and witnesses, legal research and document organization. Strong English skills, computer knowledge and good organizational skills are an asset in this profession.

This program is not designed to prepare students for the practice of

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

- 1. Make ethical decisions in the workplace
 - 1. Students will complete the Para 121 Ethics class



- Students will incorporate ethical standards in the Law Office Management class through problem solving and discussion board discussions.
- 2. Understand legal concepts
 - 1. Students will demonstrate legal concepts in the legal specialty classes through examination and practical exercises.
 - Students will draft law office memorandum and appellate briefs in the Advanced Legal Writing class incorporating analysis of legal concepts.
- 3. Communicate effectively orally and in writing
 - Students will draft law office memorandum.
 - 2. Students will use proper grammar, punctuation, and spelling.
 - 3. Students will create client correspondence.
- 4. Be proficient in using legal technology
 - Students will demonstrate the use of the Microsoft suite (Word, PowerPoint and Excel) in their completion of assignments.
 - Students will complete assignments using legal specific software.
- 5. Exhibit critical thinking skills
 - Students will analyze cases related to the legal specialty classes.
 - 2. 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 298, which is a pass/no pass class that must be passed.

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.

Paralegal Certificate (sac.para.ca)

A Paralegal Certificate is available only to students who have received an Associate in Arts or Science Degree or a 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 degree and certificate.

Required Core Courses for all Students:

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.

Units
3
2
4
2
3
4
4
3
2

Effective Fall 2011: Paralegal 145 replaces 143 and 144

SPECIALTY REQUIREMENTS

In addition to the required core courses listed above, students must select one of the 4 alternatives below:

GENERALIST ALTERNATIVE

Select 7 units of legal electives.

LITIGATION SPECIALTY ALTERNATIVE

Course	Units
*Paralegal 131, Alternate Dispute Resolution	2
*Paralegal 137, Tort & Insurance Law	2
Legal electives	3
TRANSACTIONAL SPECIALTY ALTERNATIVE	

CourseUnitsBusiness 101, Business LawOR — 3Business 105, Legal Environment of Business3*Paralegal 136, Real Property Law & Procedure2

*Paralegal 136, Real Property Law & Procedure 2 *Paralegal 138, Law of Business Organizations 2 INTERNATIONAL SPECIALTY ALTERNATIVE Course Units

Course	Units
*Paralegal 136, Real Property Law & Procedure	2
*Paralegal 138, Law of Business Organizations	2
*Paralegal 140, Immigration Law & Procedure	2
*Paralegal 147, International Commercial Agreements	1
& Distribution Law	
*Paralegal 148, International Intellectual Property Law	1
*Paralegal 149. The Law of Global Commerce	1

Legal Electives:	
Business 101, Business Law	
Business 105, Legal Environment of Business	3
Paralegal 105, Cooperative Work Experience Education	1-4
-Occupational	

Business 105, Legal Environment of Business	
Paralegal 105, Cooperative Work Experience Education	1-4
-Occupational	
Paralegal 107, Principles & Procedures in the Criminal Justice System	1 3
*Paralegal 122, Elder Law	2
*Paralegal 131, Alternate Dispute Resolution	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 136, Real Property Law & Procedure	2
*Paralegal 137, Tort & Insurance Law	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	1
& Distribution Law	
*Paralegal 148, International Intellectual Property Law	1

(second semester)

*Note: Students who want a Paralegal Certificate must already have an Associate in Arts or Science Degree or a 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.

1-4

*Paralegal 149, The Law of Global Commerce

Paralegal 299, Cooperative Work Experience Education



PHARMACY TECHNOLOGY DEGREE AND **CERTIFICATES**

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 800-363-8012. Information on the certification process can be obtained at www.ptcb.org. Note that the PTCB also requires applicants to have a high school diploma or GED.

Applicants for licensing and certification will be asked to answer questions related to misdemeanor and felony convictions, illegal drug use, and health issues that might impair their ability to practice safely. In its duty to protect the public, the Board of Pharmacy will refuse to issue a pharmacy technician license to anyone deemed unfit to practice. Individuals with criminal backgrounds may also be prohibited from taking the national certification exam.

Pharmacy Technology 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.

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 "CR") to qualify for the Basic Certificate.

Major requirements for the Basic Certificate option:

Course	Inits
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
Total	16.5

Recommended electives: Biology 139, 149; Business Applications 038, 110, 115; Chemistry 109, 119; Communication Studies 101 or 101H and 107; Computer Science 100; Pharmacy Technology 061, 064, and 080.

Pharmacy Technology Degree (sac.phar.as) and **Advanced Certificate Option (sac.phar.ca)**

The associate degree and Advanced Certificate options include the fullspectrum training required for employment in all pharmacy practice settings. Upon completion of the associate degree or 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 associate degree and the Advanced Certificate option consist of the same 15 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 or 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.

The associate degree and Advanced Certificate options are accredited by the American Society of Health-System Pharmacists (ASHP).

With the exception of Parmacy Technology 061, students must complete each required course with a grade of "C" or better (externship with a grade of "CR") to qualify for the associate degree or the Advanced Certificate.



Major requirements for the associate degree and the Advanced Certificate:

Course	Inits
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	1.5
Pharmacy Technology 060, Sterile Products	4.5
Pharmacy Technology 061, Parmacy Technology Skills Lab	0.5
Pharmacy Technology 072, Pharmacy Technology Externship	4
Total	26

Recommended electives: Biology 139, 149; Business Applications 038, 110, 115; Chemistry 109, 119; Communication Studies 097 or 101 or 101H or 102 or 107; Computer Science 100; Pharmacy Technology 064, 080, and 084.

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 —OR—	3
Philosophy 106H, Honors Introduction to Philosophy	
Philosophy 108, Ethics	3
Philosophy 110, Critical Thinking —OR—	
Philosophy 110H, Honors Critical Thinking —OR—	4
Philosophy 111, Introductory Logic	
Philosophy 112, World Religions	3
Philosophy 118, History of Philosophy	3
Electives	6
Total	22

A minimum of six elective units to be selected from the following: Art 101, 102; English 233ABCD, 271, 272; History 101 or 101H, 102 or 102H, 160; Interdisciplinary Studies 121; Music 101 or 101H; Psychology 100 or 100H; Theatre Arts 233ABCD.

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 four-year institutions as well as to enter the field of photography in positions such as studio photographer, fashion photographer, museum/gallery photographer, photo journalist, and free lance photographer. Please consult a SAC Counselor for information about course requirements for particular four-year institutions.

Major requirements for the associate in arts degree:

Course	Units
Art 101, Survey of Western Art History (3)	
Art 102, Western Art History (3)	3
—OR — Photography 150, History of Photography (3)	
Art 110, Two-Dimensional Design	3

Photography 180, Beginning Photography	3
Photography 181A, The Zone System	3
Photography 182A, Alternative Processes (3) OR — 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
Total	37-39

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

PHOTOGRAPHY CERTIFICATE (sac.phot.ca)

The photography certificate program is an intensive course of study focused on providing the student with a broad base of technical skills in photography with additional emphasis on visual communication. The certificate program prepares students to enter the photographic field in a variety of positions such as production printer, studio photographer, photo lab technician, and free lance photographer.

Major requirements for the certificate:

Course	Units
Photography 180, Beginning Photography	3
Photography 181A, The Zone System	3
Photography 183A, Photo Graphics	3
Photography 190, Introduction to Digital Photography	3
Photography 191, Intermediate Digital Photography	3
Photography 291, Wedding and Quinceanera Photography	3
Photography 292, Portrait Photography	3
Electives	1-3
Total	22-24

Electives must be chosen from the following courses: Art 110; Photography 009, 010, 181B, 182A, 182B, 183B, 194, 196, 197, 198.

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 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.

Major requirements for the associate in arts degree:

Required Courses:	Units
Political Science 101, Introduction to Government —OR—	3
Political Science 101H, Honors Introduction to Government	
9 units from 3 courses below: Political Science 201, Introduction to Comparative Politics (3) Political Science 220, International Politics (3) Political Science 235, Identity Politics (3) Political Science 200, American Political Thought (3) OR Political Science 200H, Honors American Political Thought (3)	9
4 units from courses below:	4
English 101, Freshman Composition (4)	
English 101H, Honors Freshman Composition (4)	
Elective 9 units. Select electives from the following list. Anthropology 100, Introduction to Cultural Anthropology (3) OR —	9
(3) Computer Science 100, The Computer and Society (3) Economics 120, Principles/Macro (3) Foreign Language 101 Foreign Language 102 Foreign Language 201 Foreign Language 201H Foreign Language 202	
Foreign Language 202H Foreign Language 202H History 101, World Civilizations to the 16th Century (3) OR OR History 101H, Honors World Civilizations to the 16th Century (3)	2)
History 102, World Civilizations Since the 16th Century (3) —OR— History 102H, Honors World Civilizations Since the 16th Century	
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 117H, Honors Introduction to Global Studies (3)	
Philosophy 106, Introduction to Philosophy (3) OR — Philosophy 106H, Honors Introduction to Philosophy (3) Psychology 100, Introduction to Psychology (3)	
Psychology 100H, Honors Introduction to Psychology (3) Sociology 100, Introduction to Sociology (3) OR —	
Sociology 100H, Honors Introduction to Sociology (3) Communication Studies 140, Argumentation and Debate (3)	

PSYCHOLOGY DEGREE

Option 1 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:

Course Ui	nits
Psychology 100, Introduction to Psychology	3
Psychology 100H, Honors Introduction to Psychology	3
Psychology 219, Introduction to Research Methods in Psychology	3
Social Science 219, Statistics & Probability	4
Social Science 219H, Honors Statistics & Probability	
Two courses from the following psychology electives:	6
Psychology 140, Introduction to Psychology of Adulthood & Agin	g
Psychology 157, Introduction to Child Psychology	
Psychology 170, Multicultural Psychology	
Psychology 200, Introduction to Biological Psychology	
Psychology 230, Psychology & Effective Behavior	
Psychology 240, Introduction to Social Psychology	
Psychology 250 Introduction to Abnormal Psychology	
One additional elective from the psychology courses above or	
from the following:	3
Anthropology 100 or 100H, 101; Biology 109 or 109H, 149;	
Chemistry 109, 119; Computer Science 100;	
Interdisciplinary Studies 155; Kinesiology Professional 125;	
Philosophy 110 or 110H, 111; Sociology 100 or 100H.	
Total	19

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

Option 2 Associate in Arts in Psychology for Transfer (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 50 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.

25

Total



Course	Units
Required Core (10 units)	
1. Math 219, Statistics and Probability	
Math 219H, Honors Statistics and Probability	4
—OR— Social Science 219, Statistics and Probability —OR—	
Social Science 219H, Honors Statistics and Probability	
2. Psychology 100, Introduction to Psychology	0
Psychology 100H, Honors Introduction to Psychology	3
3. Psychology 219, Introduction to Research Methods in Psy	ychology 3
List A – select one course (3 units)	
Biology 109, Fundamentals of Biology	_
Biology 109H, Honors Fundamentals of Biology	3
Psychology 200, Introduction to Biological Psychology	3
List B – select one course (3-4 units)	
Any list A course not used above	
English 101, Freshman Composition	4
English 101H, Honors Freshman Composition	
List C - select one course (3-5 units)	
Any course not selected above	3-4
Anthropology 100, 100H, 101, 104, 104H; Biology 177, 211, 2	
Chemistry 119, 209, 219, 219H; English 102, 103, 103H, 104	
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, 100	0H, 140,
140H, 240	

Total General Education Units:

CSU-General Education Breadth OR 41
Intersegmental General Education Transfer Curriculum (IGETC) 39

CSU Transferable Elective Units: As needed to Total 60 degree units

Total Number of Degree Units 60

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 —OR—	4
Mathematics 180H, Honors Analytic Geometry & Calculus	
Chemistry 219, General Chemistry OR —	5
Chemistry 219H, Honors General Chemistry	
Total	9

General Science Emphasis:

Course		Units
Science Core Required Courses		9
Mathematics 185, Analytic Geometry & Calculus		4
Electives		13
	Total	26

Astronomy Emphasis:

Course	Units
Science Core Required Courses*	9
Astronomy 109, Introduction to the Solar System	3
Astronomy 110, Introduction to Stars & Galaxies OR OR OR OR OR OR OR OR OR O	3
Astronomy 110H, Honors Introduction to Stars & Galaxies	
Astronomy 140, Astronomy Laboratory	1
Mathematics 185, Analytic Geometry & Calculus	4
Electives*	6
Total	26

- *Astronomy Emphasis Students may substitute Physics 217 for Chemistry 219.
- *Completion of Physics 217/227/237 and/or Mathematics 280 highly recommended.

Biology Emphasis:

Course		Units
Science Core Required Courses**		9
Biology 211, Cellular & Molecular Biology		5
Biology 212, Animal Diversity & Ecology —OR—		5
Biology 214, Plant Diversity & Evolution		
Electives**		8
	Total	27

- **Biology Emphasis Students may substitute Mathematics 150 for Mathematics 180/180H.
- **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
Chemistry 239, Qualitative Analysis OR — Mathematics 185, Analytic Geometry & Calculus	4
Electives***	8
Total	26

^{***}Completion of Chemistry 239/259 or Chemistry 239/249 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****		9
	Total	26

^{****}Completion of Chemistry 229 and Mathematics 185 highly recommended for Geology Emphasis Students.



Physics Emphasis:

Course		Units
Science Core Required Courses*****		9
Physics 217, Engineering Physics I		4
Physics 227, Engineering Physics II		4
Physics 237, Engineering Physics III		
Mathematics 185, Analytic Geometry & Calculus		4
Electives****		5
	Total	26

- ******Physics Emphasis Students may substitute Mathematics 280 for Chemistry 219.
- *****Completion of Physics 217/227/237 and/or Mathematics 280 highly recommended for Physics Emphasis Students.

Electives for any emphasis of the Science Degree must be selected from the following courses:

Any course numbered 100 or higher in Astronomy, Biology, Chemistry, Earth Science, Environmental Studies, Geology, Physical Science, or Physics and Mathematics 185, 280.

SECRETARIAL

(See Business Applications and Technology)

SIGN LANGUAGE

(See American Sign Language)

SOCIAL SCIENCE 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	Units
History 101/101H, World Civilizations to the 16th Century —OR —	3
History 102/102H, World Civilizations Since the 16th Century	
History 120/120H, United States to 1865 —OR—	3
History 121/121H, United States Since 1865	
Anthropology 100/100H, Cultural Anthropology OR OR OR	3
Sociology 100/100H, Introduction to Sociology	
Economics 120, Principles/Macro	3
Political Science 101/101H, Introduction to Government	3
Psychology 100/100H, Introduction to Psychology	3
Select a minimum of 6 units from the recommended electives by	pelow: 6
Total	24

Recommended electives: Anthropology 101, 103, 125; Computer Science 100; Geography 100 or 100H, History 125, 127, 181; Interdisciplinary Studies 117H; Political Science 200 or 200H, 201, 220.

SOCIOLOGY DEGREE

Option 1 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. Comple-

tion 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	3
Anthropology 100H, Honors Introduction to Cultural Anthropolog	
Psychology 100, Introduction to Psychology OR —	3
Psychology 100H, Honors Introduction to Psychology	
Sociology 100, Introduction to Sociology OR—	3
Sociology 100H, Honors Introduction to Sociology	
Sociology 140, Analysis of Social Trends & Problems OR —	3
Sociology 140H, Honors Analysis of Social Trends & Problems	
Selected electives (two courses from the following):	6

Anthropology 101, Introduction to Physical Anthropology *Anthropology 104/English 104, Language & Culture

*Anthropology 104H/English 104H, 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

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

Total

18

Sociology 112, Relationships, Marriage & Family Dynamics



Option 2 Associate in Arts in Sociology for Transfer (sac.soc.aat)

Course

The Associate in Arts in Sociology for Transfer (AA-T) prepares students to move into a curriculum at a four-vear 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 50 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.

Units

Course Un	ITS
Required Core (includes List A) (10 units) 1. Sociology 100, Introduction to Sociology	
-OR-	3
Sociology 100H, Honors Introduction to Sociology	
List A – two courses	
2. Sociology 140, Analysis of Social Trends and Problems OR	
—OR — Sociology 140H, Honors Analysis of Social Trends and Problems	3
3. Math 219, Statistics and Probability	_
—OR— Math 219H, Honors Statistics and Probability	
OR	4
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	3
Sociology 240, Introduction to Social Psychology	3
Psychology 240, Introduction to Social Psychology	
List C – select one course (3-4 units)	
Anthropology 100, Introduction to Cultural Anthropology	_
—OR— Anthropology 100H, Honors Introduction to Cultural Anthropology	3
English 101H, Honors Freshman Composition	4
English 102, Literature and Composition	
English 103, Critical Thinking and Writing	
—OR— English 103H, Honors Critical Thinking and Writing	4
Geography 102, Cultural Geography	3
Philosophy 110, Critical Thinking	_
—OR—	4
Philosophy 110H, Honors Critical Thinking	
Psychology 100, Introduction to Psychology OR OR	3
Psychology 100H, Honors Introduction to Psychology	
OR another introductory course in the social sciences chosen from	

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

Total Units for the Major	19-20	
Total General Education Units:		
CSU-General Education Breadth OR	41	
Intersegmental General Education Transfer Curriculum (IGETC) 39		
CSU Transferable Elective Units: As needed to Total 60 degree	ee units	
Total Number of Degree Units	60	

SPEECH-LANGUAGE PATHOLOGY ASSISTANT DEGREE (sac.slpa.aa)

(Formerly: Speech-Language Pathology Assistant Degree (SAC 1510) and Certificate (SAC 1998))

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 a registration as a Speech-Language Pathology Assistant by the California Speech-Language Pathology and Audiology Examining Board. Prior to obtaining employment, students who have completed all AA requirements will need to apply for registration to practice in the State of California through the Speech Language Pathology and Audiology Board (SLPAB), 2005 Evergreen Street, Suite 210, 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, 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 SLPAB directly anytime prior to the application process. Registration application and complete information on necessary documents can be obtained trough the SLPAB web site at www.slpab.ca.gov.

Major requirements for the associate degree:

All AA 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,	1
Introduction to Speech-Language Pathology Assisting	
Speech Language Pathology Assistant 119,	3
Speech, Language & Hearing Development	
Communication Studies 151, Voice & Diction for Effective	3
Communications	
Human Development 107, Ch ild Growth & Development	
OR — Psychology 157, Introduction to Child Psychology	3
Human Development 108A, Observation & Assessment for	3
Early Learning & Development	
Speech Language Pathology Assistant 120,	2
Clinical Management & Procedures	
Speech Language Pathology Assistant 150, Clinical Observation	0.5
Speech Language Pathology Assistant 160,	3
Introduction to Communication Disorders & Treatment	
Communication Studies 170, Introduction to Phonetics	3
Speech Language Pathology Assistant 180,	3
Screening Processes & Intervention Procedures	
Speech Language Pathology Assistant 190, Clinical Fieldwork I	2
Speech Language Pathology Assistant 200,	3
Adult & Geriatric Communication Disorders	
Human Development 205/Special Services 205, Exceptionality 8	3
Special Needs in Human Development	
Speech Language Pathology Assistant 250, Clinical Fieldwork II	2
Sign Language 110, American sign Language I	3
Total	37.5



General Education Requirements:	
Biology 109, Fundamentals of Biology OR —	3
Biology 109H, Honors Fundamentals of Biology	
Biology 109L, Fundamentals of Biology Laboratory	1
Biology 149, Anatomy & Physiology OR —	4
Biology 239, General Human Anatomy	
English 101, Freshman Composition —OR—	4
English 101H, Honors Freshman Composition	
Psychology 100, Introduction to Psychology	3
Psychology 100H, Honors Introduction to Psychology	J
Communication Studies 101, Introduction to Interpersonal	_
Communication	
OR — Communication Studies 101H, Honors Introduction to Interpersonal	3
Communication	
Communication Studies 103, Introduction to Intercultural	_
Communication	
-OR-	3
Communication Studies 103H, Honors Introduction to Intercultural Communication	
Kinesiology Health Education 105, First Aid & Personal Safety 1	.5
Kinesiology Health Education 107, Cardiopulmonary Resuscitation	2
Anthropology 104, Language & Culture	_
Anthropology 104H, Honors Language & Culture	3
English 104, Language & Culture OR—	
English 104H, Honors Language & Culture	
Mathematics 080, Intermediate Algebra —OR —	4
Mathematics 081, Intermediate Algebra	_
Psychology 140, Psychology of Adulthood & Aging	3
Total 30	.5

To complete the AA degree requirement, students need to fulfil the requirements for American Institutions, Reading, Lifelong Understanding and Self-Development Section F2 and successfully complete the Computer Skills and Applications requirement.

RECOMMENDED ELECTIVES

Early Childhood Education Setting Human Development 111B, Introduction to Curriculum for 3 Young Children Human Development 231, Developing Language & Literacy in Young Children **Hospital or Medical Setting** Biology 217, Pathophysiology-Dynamic Aspects of Disease 2 Medical Assistant 051A, Beginning Medical Terminology 3 Nursing-Registered 104, Communication for the 3 Health Care Professional _OR _ Communication Studies 107, Communication for the 1.5 Health Care Professional

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 DEGREE AND CERTIFICATE 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
Electronic Media: Broadcasting, Cable, Video	
Television/Video Communications 110, Introduction to	3
Television Production	
Television/Video Communications 112, Introduction to	3
Video Editing & Post Production	
Television/Video Communications 130, Principles of	3
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 Product	ion 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	
Television/Video Communications 230A, Broadcast News	4
Production	
Television/Video Communications 260, Lighting Systems &	2
Techniques for TV/Video	
Plus 6 units from the elective list below	6
Total	34.5

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 105H, 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	
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	
Television/Video Communications 230A, Broadcast News	4
Production	
Television/Video Communications 260, Lighting Systems &	2
Techniques for TV/Video	
Plus 6 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 105H, 114, 115B, 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:	
Television/Video Communications 115A, Single-Camera	3
Production & Editing	
Television/Video Communications 120, Beginning Writing for	3
TV, Film and Corporate Video	
Television/Video Communications 141, On-Camera Appearance	3
Television/Video Communications 161, Fundamentals of Audio	1.5
for TV & Film	
Television/Video Communications 230A, Broadcast News	4
Production	
Television/Video Communications 230B, Broadcast News	4
Production	
Television/Video Communications 260, Lighting Systems &	2
Techniques for TV/Video	
Plus 3 units from the elective list below:	3
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 105H, 114, 115B, 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: A Visual History	3
Television/Video Communications 120, Beginning Writing for TV, Film and Corporate Video	3
Television/Video Communications 121, Intermediate Writing for TV & Film	3
Television/Video Communications 123, Advanced Writing Project for TV, Film & Corporate Video	s 3
Television/Video Communications 150, Producing & Directing for Television	3
Television/Video Communications 230A, Broadcast News Production	4
Plus 3 units from the elective list below:	3
Total	34



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 105H, 114, 115A, 115B, 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 Television, Advanced Techniques	2
Plus 9 units from the elective list below:	9
Total	36

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 105H, 114, 115B, 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	3
Television/Video Communications 104 or Theater Arts 104,	
History of Film from 1945 to Present	
Television/Video Communications 105, Mass Media & Society	
OR	3
Television/Video Communications 105H, Honors Mass Media &	
Society	
Television/Video Communications 120, Beginning Writing for	3
TV, Film & Corporate Video	
Total	15

THEATRE ARTS DEGREE

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	
—OR — Theatre Arts 105, A Cultural History of World Theatre	3
Theatre Arts 110, Fundamentals of Acting	3
Theatre Arts 131, Stagecraft	3
Plus 9 units from the following courses	9
Theatre Arts 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)	

Option 1 (B) Technical Theatre Emphasis Degree (sac.tatec.aa)

The Technical Theatre degree provides a fundamental exploration of Theatre Arts focusing on the technical elements that support performers and enhance performances. It is designed to prepare the student for entry level technical careers in such as stage technician, lighting technician, sound technician, master electrician, scenic carpenter, stage manager, and other related careers. This degree provides a more flexible and diverse study plan in comparison to the associate in arts degree for transfer.

Major requirements for the associate of arts degree:

Core courses: 9 units	Units
Theatre Arts 100, Introduction to the Theatre	
—OR — Theatre Arts 105, A Cultural History of World Theatre	3
Theatre Arts 110, Fundamentals of Acting	3
Theatre Arts 131, Stagecraft	3
Plus 9 units from the following courses	9
Theatre Arts 132, Stage Makeup (3)	
Theatre Arts 133, Stage Lighting (3)	
Theatre Arts 135, Technical Production (1)	
Theatre Arts 150, Theatre Production (2)	
Theatre Arts 165, Introduction to Intelligent Lighting (2)	
Theatre Arts 166A, Intermediate Programming (2)	
Theatre Arts 167, Setup for Intelligent Lighting (1)	
Theatre Arts 168A, Computer Applications for Entertainment Lighting (2.5)	
Theatre Arts 170, Entertainment Technology Internship (1)	
Theatre Arts 198, Topics (3)	
Theatre Arts 250, Advanced Theatre Production, (2)	

Total

18



Option 2 Associate in Arts in Theatre Arts for Transfer (sac.taper.aat)

The Associate in Arts in Theatre Arts for Transfer (AA-T) prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree in theatre arts which can lead to careers in teaching, design, technical theatre, theatre management, professional performance, stage direction, stage management, and related areas. Please consult a counselor regarding specific course requirements for your transfer institution, 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 Theatre Arts major. See page page 50 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 Theatre Arts students will understand and be able to demonstrate the fundamental performance and technical production processes for the theatre arts, demonstrate knowledge of the historical and cultural dimensions of theatre, and understand the interaction between script, actor, and audience and the areas of scenery, lighting, sound, and costume.

Core courses: 9 units Uni	ts
1. Theatre Arts 100, Introduction to the Theatre —OR —	3
Theatre Arts 105, A Cultural History of World Theatre	
2. Theatre Arts 110, Fundamentals of Acting	3
3. Rehearsal and Performance to a maximum of 3 units chosen from the following courses:	3
Theatre Arts 151, Showcase (2)	
Theatre Arts 152 Tour Ensemble (3)	

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 to a maximum of 3 units chosen from the following courses:

Theatre Arts 135, Technical Production (1)

Theatre Arts 150, Theatre Production (2)

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 18 Total General Education Units: CSU-General Education Breadth OR 41

Intersegmental General Education Transfer Curriculum (IGETC) 39
CSU Transferable Elective Units: As needed to Total 60 degree units
Total Number of Degree Units 60

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

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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)	
Theatre Arts 150, Theatre Production (2)	
Total	17.5

WELDING TECHNOLOGY DEGREE (sac.weld.as) AND CERTIFICATE (sac.weld.ca)

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 and certificate:

Course	Units
Welding 008, Oxyacetylene-Arc Welding	3
Welding 029, Advanced Arc Welding	3
Welding 039, Inert Gas Welding	4
Manufacturing Technology 011, Basic Blueprint Reading	2
Manufacturing Technology 028, Basic Metals Technology	3
4 units from list of recommended electives	4
Total	19

Recommended electives: Business 170; Communication Studies 101 or 101H; English 061; Manufacturing Technology 053; Welding 020, 025, 040, 041.



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
Total	27

Recommended electives: Counseling 116, 117; History 181; Philosophy 108; Psychology 140; Sociology 112; Women's Studies 198.



ANNOUNCEMENT OF COURSES

Each course is designated by a number. A descriptive title and the units allowed for the course follow the course number. Courses numbered 100 and above are university parallel courses and are offered for transfer to colleges and universities. See page 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 fouryear 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.

C-ID	SAC COURSE
AJ 110	CJ 101, Introduction to Criminal Justice
ARTH 110	ART 101, Survey of Western Art History I: Prehistory Through the Middle Ages
ARTS 100	ART 110, Two-Dimensional Design
ARTS 110	ART 130, Introduction to Drawing
CHEM 110	CHEM 219, General Chemistry
CHEM 120	CHEM 229, General Chemistry and Qualitative Analysis
MATH 230	MATH 280, Intermediate Calculus
MATH 240	MATH, 295 Beginning Differential Equations (SAC course deleted F '12)
MATH 250	MATH 290, Linear Algebra (SAC course deleted F'12)
MATH 900S	MATH 180, Analytic Geometry and Calculus (part of a two-course sequence)
MATH 900S	MATH 185, Analytic Geometry and Calculus (part of a two-course sequence)
PSY 110	PSYC 100H, Honors Introduction to Psychology
SOCI 110	SOC 100, Introduction to Sociology
SOCI 110	SOC 100H, Honors Introduction to Sociology
SOCI 115	SOC 140, Analysis of Social Trends and Problems
SOCI 115	SOC 140H, Honors Analysis of Social Trends and Problems

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

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

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

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 Financial Accounting

Unit(s): 4

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

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

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. May be repeated.

Accounting 105

Intermediate Federal and California Taxes

Unit(s): 4

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 - 4

Class Hours: Arranged.

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 - 6

Class Hours: 48-288 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

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. May be repeated.

Accounting 113

Intermediate Income Taxes - Corporations

Unit(s): 2

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 qualifies for continuing education. May be repeated.

Accounting 114 Intermediate Income Taxes - Partnership and LLCs

Unit(s): 2

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 qualifies for continuing education. May be repeated.

Accounting 116 Money, Finance and Accounting for Entrepreneurs

Unit(s): 2

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

Class Hours: 16 Lecture total.

This courses provides a student with the practical knowledge of income tax preparation, tax planning and income tax research, using commercial Tax software. May be repeated.



Accounting 150

Governmental and Nonprofit Accounting

Unit(s): 3

Class Hours: 48 Lecture total.

This course introduces financial accounting concepts as they apply to governmental and not-for-profit entities; federal, state and local governments, school districts, universities, hospitals, religious and social service organizations. Focus is on the principles and procedures of accounting, financial reporting, budgeting and auditing requirements. Suggested preparation: Some prior training in financial accounting.

Accounting 160 Computerized Accounting with MAS 90 -**Part 1 Core Modules**

Unit(s): 3

Class Hours: 48 Lecture total.

Hands-on training in the use of MAS 90 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 Computerized Accounting with MAS 90 -**Part 2 Operations Modules**

Unit(s): 3

Class Hours: 48 Lecture total. Prerequisite: Accounting 160.

Expanded hands-on training in the use of MAS 90 integrated accounting 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

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

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

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

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

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

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

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

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 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

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

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

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

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

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 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

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 107 Introduction to Forensic Anthropology

Unit(s): 3

Class Hours: 48 Lecture total.

An introduction of the application of physical anthropology and archaeology to forensic science. Includes search and recovery techniques, analysis and interpretation of remains, identification techniques, case studies, and global applications of forensic anthropology.

Anthropology 108 Religion, Magic, and Witchcraft

Unit(s): 3

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

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

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

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of

3.0 or above.

Enriched exposure to a study of the visual arts in relation to personal and cultural expression with an emphasis on critical thinking and writing. Fundamentals of visual organization, color theory, terminology, historical art movements and concepts will be studied in a seminar format.

Art 101 (C-ID ARTH 110) Survey of Western Art History I: Prehistory **Through the Middle Ages**

Unit(s): 3

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.

Survey of Western Art History II: **Renaissance Through the Twentieth** Century

Unit(s): 3

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

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.

Δrt 104

Mexican and Chicano Art History

Unit(s): 3

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

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

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.



Contemporary Art History: Art Since Mid-Century

Unit(s): 3

Class Hours: 48 Lecture total.

A survey course exploring post World War Il styles, trends, ideas and innovations in architecture and the visual arts in Europe and North America.

Art 110 (C-ID ARTS 100) **Two-Dimensional Design**

Unit(s): 3

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

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

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

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

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

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-thescenes museum tours of collections and exhibition preparation areas. May be repeated. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Graphic Design Concepts for the Web

Unit(s): 3

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 (C-ID ARTS 110) **Introduction to Drawing**

Unit(s): 3

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

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.

Beginning Pastel Drawing and Painting

Unit(s): 3

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

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

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. May be repeated

Art 140B **Watercolor Painting**

Unit(s): 2

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

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

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

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

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

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

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

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. May be repeated.

Art 155

Plaster Mold Making

Unit(s): 3

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

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, hand-building, and plaster mold construction methods.

Art 157

Ceramics-Raku and Saggar Firing Techniques

Unit(s): 3

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 fireing techniques will be utilized.

Art 158

Ceramic Mural Project

Unit(s): 3

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. May be repeated.

Art 159A

Ceramic Color Decoration: Low Temperature

Unit(s): 3

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 159E

Ceramic Color Decoration: High Temperature

Unit(s): 3

Class 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

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

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

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

Class Hours: 48 Lecture, 48 Laboratory total. Prerequisite: Art 196A or TV/Video Communications 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

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.



Digital Media: Portfolio and Business Strategies

Unit(s): 3

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, 122 recommended. May be repeated.

Art 180

Video Game & Interactive Media Art

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

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 183

Beginning Stained Glass

Unit(s): 2

Class Hours: 16 Lecture, 48 Laboratory total. The craft of stained glass including design, glass cutting, soldering, lead came, and copper foil techniques. Student purchase of tools and supplies required.

Art 185

Fundamentals of Cartooning and Storyboarding

Unit(s): 3

Class Hours: 24 Lecture, 48 Laboratory total. Introduction to basic cartooning, character development and storyboarding as used in television, film and electronic games. Includes sketching, inking, the development of characters, storyboard development and an overview of cartoon and storyboard history. May be repeated.

Art 186

Intermediate Stained Glass

Unit(s): 2

Class Hours: 16 Lecture, 48 Laboratory total. Prerequisite: Art 183.

Continued instruction in the craft of stained glass including reinforcing and installation of large leaded glass windows. Construction of three dimensional copper foil pieces. Student purchase of tools and supplies required. May be repeated.

Art 187

Glass Slumping and Fusing

Unit(s): 1.5

Class Hours: 16 Lecture, 32 Laboratory total. An introduction to the craft of glass slumping and fusing. Flat and 3-dimensional design techniques will be explored including working with clear glass and a variety of colored, textured and dichroic glass. Students will create various molds and forms to kiln fire designs. Sandblasting or soldered metal designs may be used to enhance projects. May be repeated.

Art 188A

Glass Exploration I

Unit(s): 2

Class Hours: 16 Lecture, 48 Laboratory total. The craft of working with sheet glass to create mosaic, fused glass, or copper foil flat or 3-dimensional designs. May be repeated.

Art 188B

Glass Exploration II

Unit(s): 2

Class Hours: 16 Lecture, 48 Laboratory total. Continued instruction in the craft of glass mosaics, glass fusing, glass tiles, 3-dimensional designs, and sculpture. May be repeated.

Art 191A

Digital Publishing With Indesign

Unit(s): 3

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. May be repeated.

Digital Illustration With Illustrator

Unit(s): 3

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. May be repeated.

Introduction to Digital Media Arts

Unit(s): 3

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. May be repeated.

Art 196A 3-D Modeling

Unit(s): 5

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 Television/Video Communications 181.). May be repeated.

3-D Animation

Unit(s): 5

Class Hours: 48 Lecture, 96 Laboratory total. Prerequisite: Art 196A or Television/Video Communications 181.

Instruction in using 3d animation software for the purpose of linear storytelling. Emphasis on the incorporation of the classic principles of animation, and in learning the core components of the software that are necessary for effective visual communication. (Same as Television/Video Communications 185.). May be repeated.

Art 221

Graphic Design II

Unit(s): 3

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

Class Hours: 32 Lecture, 64 Laboratory total. Prerequisite: Art 130.

Continued study in drawing with additional opportunities in graphic expression. Further exploration of media, including colored pencils, oil pastel, charcoal and mixed media. Continuation of composition concepts with emphasis on individual expression.

Art 231

Intermediate Life Drawing

Unit(s): 3

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. Projects vary each semester. May be repeated.



Art 232

Advanced Life Drawing

Unit(s): 3

Class Hours: 32 Lecture, 64 Laboratory total.

Prerequisite: Art 231.

Intensive study of the figure with further development of drawing skills, composition, techniques and media utilizing the live model. Projects vary each semester. May be repeated.

Art 233

Advanced Drawing

Unit(s): 3

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. May be repeated.

Art 234

Introduction to Mixed Media

Unit(s): 3

Class Hours: 32 Lecture, 48 Laboratory total. Prerequisite: Art 110 or 130.

Introduction to the use of mixed media. Collage, bookworks, assemblage will be explored through a series of studio projects. Visitations to studios and galleries. May be repeated.

Art 234H

Honors Advanced Mixed Media

Unit(s): 3

Class Hours: 32 Lecture, 48 Laboratory total. Prerequisite: Completion of a 200 level studio art course; and a college GPA of 3.0 or above.

In-depth exploration of mixed media. Collage, bookworks, assemblage will be explored through a series of studio projects. Visitations to studios and galleries. May be repeated.

Art 240

Intermediate Watercolor

Unit(s): 2

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. May be repeated.

Art 241

Intermediate Painting

Unit(s): 3

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. May be repeated.

Art 242

Advanced Painting

Unit(s): 3

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. May be repeated.

Art 243

Portrait and Life Painting

Unit(s): 3

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 watercolor, pastels, water soluable oil and acrylic. Study of traditional and contemporary methods and directions. May be repeated.

Art 250

Advanced Studio Concepts

Unit(s): 3

Class Hours: 32 Lecture, 64 Laboratory total. Intensive study in visual arts for majors with studio emphasis. Exposure to contemporary art directions, trends and job markets. Different studio problems each semester. May be repeated.

Art 251

Ceramics-Advanced Throwing and Handbuilding

Unit(s): 3

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 nontraditional materials such as metal/wood/plastics/paints.

Art 252

Ceramics-Advanced Study Process in Ceramics With Non-Traditional Media

Unit(s): 3

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

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

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. May be repeated.

Art 283 Jewelry III

Unit(s): 3

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

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. May be repeated.

Art 285

Introduction to Enameling-Jewelry

Unit(s): 2

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. May be repeated.



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 - 2.5

Class Hours: 0.5 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

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

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

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

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

Class Hours: 48 Laboratory total.

Prerequisite: Astronomy 109 or 110 or 110H

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

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

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

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

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

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

Class Hours: 64 Lecture, 64 Laboratory total. Theory, operation, diagnosis and maintenance of the following systems and components: batteries, cranking, charging, lighting, instrument, and accessory circuits. Students furnish hand tools and safety equipment. Suggested preparation: Automotive Technology 002 or 006, and

Automotive Technology 025 A-6 Alternative Course - Electrical **Systems**

Unit(s): 2

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. May be repeated. Grade: Pass/No Pass Only.

Automotive Technology 032 Tune-Up

Unit(s): 5

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

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. May be repeated. Grade: Pass/No Pass Only.



Automotive Technology 043 Automatic Transmission Service

Unit(s): 4

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

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

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 080 Computer Controls

Unit(s): 3

Class Hours: 48 Lecture total. Theory, component function, and diagnosis of the following automotive computer controlled systems: G.M.'s, TBI, and PFI; Ford's EEC IV and V; and OBD II. Suggested preparation: Automotive Technology 002 or 006 and 032 or one year tune-up related trade experience. May be repeated.

Automotive Technology 081 Fuel Injection Systems

Unit(s): 3

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. May be repeated.

Automotive Technology 082 Automotive Computer Sensors

Unit(s): 3

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. May be repeated.

Automotive Technology 083 Automotive Lab Scopes

Unit(s): 3

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. May be repeated.

Automotive Technology 084 OBD-II

Unit(s): 3

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. May be repeated.

Automotive Technology 085 Basic Clean Air Car Course

Unit(s): 5

Class Hours: 80 Lecture total.

Bureau of Automotive Repair recognized Basic Clean Air Car Course. This course fulfills one of the required courses that the student needs to take for the State Smog Technician Exam. May be repeated. Grade: Pass/No Pass Only. Open Entry/ Open Exit.

Automotive Technology 086 Advanced Clean Air Car Course

Unit(s): 2

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. May be repeated. Grade: Pass/No Pass Only.

Automotive Technology 087 L-1 Alternative Course: Advanced Engine **Performance**

Unit(s): 2

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

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

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

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

Traditional Biology, enriched by extensive instructor-prepared study guides for each subject area of curriculum. Additional enhancement by outside reading suggestions and optional student reports. Class participation and discussion is strongly encouraged, as are questions on current reports and news in the popular media and scientific sources. Information will be expanded by reference to research observations and by appropriate references to classical and current literature. Emphasis is on analysis of pertinent topics using critical reading and interpretation skills. Concurrent enrollment in Biology 109L is recommended. Designed for non-biology majors.

Biology 109L Fundamentals of Biology Laboratory

Unit(s): 1

Class Hours: 48 Laboratory total. Prerequisite: Biology 109/109H 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. Fieldtrips required.

Biology 115 Concepts in Biology for Educators

Unit(s): 4

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

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.

Biology 128

Natural History of the California Coast

Unit(s): 1

Class Hours: 16 Lecture total.

An ecological study of plant and animal life of the southern and central California coast. Spring only. May be repeated.

Biology 129

Ecology of Southern California

Unit(s): 1

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.

Biology 131

Natural History of the Southwest

Unit(s): 3

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.

Biology 132 **Natural History of Death Valley**

Unit(s): 1

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. Mandatory orientation and field trip. Not offered every semester. May be repeated.

Biology 133 Desert Biology

Unit(s): 1

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. Mandatory orientation and field trip. Not offered every semester. May be repeated.

Biology 134

Natural History of the Sonoran/Colorado **Desert**

Unit(s): 1

Class Hours: 16 Lecture total.

Ecological study of the plants and animals of the Sonoran/Colorado Desert area of Southern California.

Biology 135

Ecology of the Mojave Desert

Unit(s): 1

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

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

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 - 3

Class Hours: 16-48 Lecture total.

A field study of the ecology, geology and history of the Sierra Nevada mountains. Animal and plant studies, environmental problems and wilderness preservation will be emphasized.

Biology 170 **Environmental Challenge of the 21st** Century

Unit(s): 1

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

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

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 plantlovers. May be repeated.

Biology 200 Environment of Man

Unit(s): 3

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

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

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

Class Hours: 48 Lecture, 96 Laboratory total. Prerequisite: Biology 211 with a grade of C or hetter

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

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

Class Hours: 48 Lecture, 96 Laboratory total. Prerequisite: Biology 109/109H and 109L, or 139, or 149, or 211 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

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

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

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

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

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

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

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

Class Hours: 48 Lecture 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 Education-Occupational

Unit(s): 1 - 4

Class Hours: Arranged.

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 103. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Business 104

Cooperative Work Experience Education-General

Unit(s): 1 - 4

Class Hours: Arranged.

Supervised paid or volunteer experience not related to student's major including new or expanded responsibilities. One credit for each 5 hours worked per week to a maximum of 3 units for 15 hours worked per week each semester. Limitation of 6 units in general cooperative education courses. Students must be enrolled in a minimum of 7 units including 4 units for Business 104. Grade: Pass/No Pass Only.

Business 105

Legal Environment of Business

Unit(s): 3

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

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

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-Beainnina

Unit(s): 1

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Class Hours: 64 Lecture total.

Introduction to computer concepts and management information systems. Application software used to solve business problems.

Business 160 Introduction to Stock and Bond Investments

Unit(s): 3

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

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

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

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

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

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

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

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

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

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

Class Hours: 48 Lecture total. Prerequisite: English 101 or 101H.

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.



BUSINESS APPLICATIONS (BA)

Business Applications 016 Computer Office Modules

Unit(s): 0.5 - 6

Class Hours: 24-192 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

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

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, 8 Laboratory 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, 8 Laboratory 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, 8 Laboratory 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

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, 8 Laboratory 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

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

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

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 - 2

Class Hours: Arranged.

Prerequisite: Business Applications 057 or

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, 8 Laboratory 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 - 4

Class Hours: Arranged.

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

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

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

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 Computer Keyboarding Speed and Accuracy Development II

Unit(s): 1

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

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, 8 Laboratory 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, 8 Laboratory 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, 8 Laboratory 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

Class Hours: 48 Lecture, 16 Laboratory total.
Learn to use Geographic Information
Systems (GIS). Course covers mapping
and spatial analysis capabilities of ArcView
software. Students are introduced to GIS,
basic cartographic principles and will learn
to use ArcView to view relationships, patterns, or trends by plotting data on maps,
and its role in analysis and decisionmaking. May be repeated.

Business Applications 151 Intermediate Geographic Information Systems

Unit(s): 3

Class Hours: 48 Lecture, 16 Laboratory 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. May be repeated.

Business Applications 160 Microsoft Publisher

Unit(s): 3

Class Hours: 48 Lecture, 16 Laboratory 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

Class Hours: 48 Lecture, 16 Laboratory 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

Class Hours: 48 Lecture, 16 Laboratory 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

Class Hours: 48 Lecture, 16 Laboratory 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

Class Hours: 48 Lecture, 16 Laboratory 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, 8 Laboratory 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

Class Hours: 48 Lecture, 16 Laboratory 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

Class Hours: 48 Lecture, 16 Laboratory 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

Class Hours: 48 Lecture, 16 Laboratory 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

Class Hours: 48 Lecture, 16 Laboratory 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 Introduction to Microsoft Office

Unit(s): 4

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

Class Hours: 48 Lecture, 16 Laboratory 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 Microsoft Word

Unit(s): 3

Class Hours: 48 Lecture, 16 Laboratory 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

Class Hours: 48 Lecture, 16 Laboratory 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

Class Hours: 48 Lecture, 16 Laboratory 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, 8 Laboratory 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. 8 Laboratory 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, 8 Laboratory 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, 8 Laboratory 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, 8 Laboratory 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

Class Hours: 48 Lecture, 16 Laboratory 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 burnout: 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 Managing Emotional Intelligence: Social Awareness

Unit(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 s personal 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

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

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 041Workplace 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 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 Building Interpersonal Skills

Unit(s): 0.2

Class Hours: 8 Lecture total.

How to increase effectiveness through improved 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

nit(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 061 Telephone Techniques

Unit(s): 0.2

Class Hours: 8 Lecture total.

How to handle telephone calls efficiently, pleasantly, and with finesse. Includes how to handle problem calls, voice and tone, listening skills, and telephone courtesy.

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 065A

Word - Beginning

Unit(s): 0.2

Class Hours: 8 Lecture total.

How to do basic word processing using Microsoft Word. Includes word processing concepts and how to create, edit, format, and print business related documents. 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 - Advanced

Unit(s): 0.2

Class Hours: 8 Lecture total.

How to use the advanced features of Microsoft Outlook Includes the "outof-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 077 PDA Essentials

Unit(s): 0.2

Class Hours: 8 Lecture total.

An introduction to the use of a Personal Digital Assistant (PDA) to improve effectiveness in the work environment. Includes how to manage the calendar, contacts, to-do lists, notes, e-mail, and web browsing. Various PDA types are discussed and the PalmOne operating systems will be used for demonstration. Grade: Pass/No Pass Only.

CHEMISTRY (CHEM)

Chemistry 109 Chemistry in the Community

Unit(s): 4

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

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

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

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

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 (C-ID CHEM 110) General Chemistry

Unit(s): 5

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

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 (C-ID CHEM 120) General Chemistry and Qualitative Analysis

Unit(s): 5

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

Class Hours: 48 Lecture, 96 Laboratory total. Prerequisite: Chemistry 229 with a grade of C or better.

Alkanes, alkenes, alkynes, alkyl halides, organometallics, alcohols, ethers, aromatics, and carbonyl compounds: structure and bonding, nomenclature, descriptive chemistry, reaction mechanisms, synthetic methods. IR spectroscopy. Laboratory: separations/purifications and identification, simple syntheses.



Chemistry 259 Organic Chemistry II

Unit(s): 5

Class Hours: 48 Lecture, 96 Laboratory total. Prerequisite: Chemistry 249 with a grade of C or better

Continuation of Chemistry 249. Includes units on aromatics, carbonyl compounds, carboxylic acids and their derivatives, amines, and classes of biologically important compounds. More complex synthetic routes are explored. Lab work includes multi-step syntheses. Reaction mechanisms and use of spectroscopic techniques continue to be emphasized.

CHICANO STUDIES (CHST)

Chicano Studies 101 Introduction to Chicano Studies

Unit(s): 3

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

Class Hours: 80 Lecture, 16 Laboratory total. Practice and integration of pronunciation, grammar, vocabulary, and common idioms through listening, speaking, reading, and writing so that students can begin to express thoughts orally and in writing. The class will also introduce students to culture and social linguistic knowledge appropriate to Chinese-speaking societies. Sixteen additional hours in the Modern Language Lab are required.

Chinese 102 **Elementary Chinese II**

Unit(s): 5

Class Hours: 80 Lecture, 16 Laboratory 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. Sixteen additional hours in the Modern Language Lab are required.

COMMUNICATION STUDIES (CMST)

Communication Studies N49 Introduction to Academic Speaking Skills (Formerly: Speech Communication N49)

Unit(s): 3

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

Communication Studies N50 Pronunciation Skills Laboratory (Formerly: Speech Communication N50)

Unit(s): 1

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 Skills (Formerly: Speech Communication N52A)

Unit(s): 3

Class Hours: 48 Lecture, 16 Laboratory total. Prerequisite: English for Multilingual Students

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 (Formerly: Speech Communication N52B)

Unit(s): 3

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 (Formerly: Speech Communication N53)

Unit(s): 3

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 (Formerly: Speech Communication N54)

Unit(s): 1

Class Hours: 16 Lecture, 16 Laboratory total. Prerequisite: Concurrent enrollment in English for Multilingual Students 055 or 107, 109, 110 or 112.

Individualized instruction to assist in the reduction of foreign accents. Improvement of discrimination and production of the American English sound system, melody, intonation and stress patterns. Not applicable to associate degree. Grade: Pass/ No Pass Only. Open Entry/Open Exit.

Communication Studies N59 Pronunciation Review (Formerly: Speech Communication N59)

Unit(s): 1

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 (Formerly: Speech Communication 096) Unit(s): 3

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 (Formerly: Speech Communication 097)

Unit(s): 3

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 101H. Designed for non-native speakers.

Communication Studies 101 Introduction to Interpersonal **Communication (Formerly: Speech** Communication 101)

Unit(s): 3

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 (Formerly: Speech Communication 101H)

Unit(s): 3

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 (Formerly: Speech Communication 102)

Unit(s): 3

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 (Formerly: Speech Communication 103)

Unit(s): 3

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 Honors Introduction to Intercultural Communication (Formerly: Speech Communication 103H)

Unit(s): 3

Class Hours: 48 Lecture total.

Prerequisite: High school or college GPA of

3.0 or above.

Enriched for honors students. In-depth, seminar format examination of sociological, psychological, and communication patterns of various cultural groups. Methods, skills, and techniques for effective intercultural and interracial communication. Stresses analytical thinking, speaking, and writing skills.

Communication Studies 104 Listening (Formerly: Speech Communication 104)

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 (Formerly: Speech Communication 107)

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. May be repeated.

Communication Studies 140 Argumentation and Debate (Formerly: Speech Communication 140)

Unit(s): 3

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 Group Dynamics (Formerly: Speech Communication 145)

Unit(s): 3

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 (Formerly: Speech Communication 151)

Unit(s): 3

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. May be repeated.

Communication Studies 152 Oral Interpretation (Formerly: Speech Communication 152)

Unit(s): 3

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 (Formerly: Speech Communication 158)

Unit(s): 3

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 spreakers.

Communication Studies 170 Introduction to Phonetics (Formerly: Speech Communication 170)

Unit(s): 3

Class Hours: 48 Lecture total.

Study of the articulatory foundations of the description and classification of speech sounds. Introduces the International Phonetic Alphabet (IPA), physiological properties of the speech-producing mechanism, and methods of transcription. Emphasis will be on American English along with comparison to the sound systems of other languages. Communication Studies N53 recommended for non-native speakers.

Communication Studies 206 Gender Communication (Formerly: Speech Communication 206)

Unit(s): 3

Class Hours: 48 Lecture total.

Prerequisite: Grade of C or better in a Communication Studies course numbered 100 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 (Formerly: Speech Communication 206H)

Unit(s): 3

100 or higher.

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

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

COMMUNICATIONS & MEDIA STUDIES (CMSD)

Communications & Media Studies 102 Multimedia Storytelling

Unit(s): 3

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 Visual Communications

Unit(s): 3

Class Hours: 48 Lecture total.

A study of Visual Communication including design principles, aesthetics, visual perception, and non-verbal messages. Examines the relationship of Visual Communication to verbal communication, audience, and persuasion through analysis of works of philosophical and cultural importance. Historical overview of visual media including current trends and technologies.

Communications & Media Studies 110 Introduction to Creative Nonfiction

Unit(s): 4

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

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 Writing and Reporting for Media

Unit(s): 3

Class Hours: 48 Lecture total.

An introduction to evaluating, gathering and writing news across multi-media platforms under newsroom conditions. Includes role of the reporter in a multimedia environment and the legal and ethical issues related to reporting. Writing experiences include: Web-based and multi-media reporting, interviewing techniques, research methods, and application of media law.

Communications & Media Studies 122 Editing for Print and Digital Media

Unit(s): 3

Class Hours: 48 Lecture total.

Introduction to editing for print and digital media. Couse emphasizes Associated Press Style, syntax, grammar, copy editing and headline writing.

Communications & Media Studies 123 News Media Production

Unit(s): 4

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 newspaper and its various forms. Students utilize a digital laboratory to develop skills in a variety of disciplines, including writing, editing, design, photography, and visual reporting. Completion of Journalism 121 recommended. May be repeated.

Communications & Media Studies 124 Magazine Writing for Print and Digital Media

Unit(s): 3

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 Journalism 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 201 Visual Reporting

Unit(s): 2

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 222 Writing Across Media

Unit(s): 3

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 298 Designing for Print and Digital Media

Class Hours: 48 Lecture, 48 Laboratory total. Prerequisite: Completion of a college Communications and Media Studies course.

A comprehensive course emphasizing professional standards and techniques in print, digital and Web-based design. Utilizes digital laboratory as a platform for training in design theory, page architecture, color application and typography. For those interested in design careers. May be

COMPUTER SCIENCE (CMPR)

Computer Science 100 The Computer and Society

Unit(s): 3

Class Hours: 48 Lecture total.

An introduction to the area of computers and their relationship to today s information society. Examines a broad overview of topics including: hardware, software, networking, information technology, and the Internet. The student will explore the implication and effect of technology on society, careers and ethics.



Computer Science 104 Cooperative Work Experience EducationOccupational

Unit(s): 1 - 4

Class Hours: Arranged.

Supervised paid or volunteer experience in student's major including new or expanded responsibilities. One unit 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. Student must be enrolled in a minimum of 7 units including 4 units in Computer Science 104. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Computer Science 105 Visual BASIC Programming

Unit(s): 3

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 111 Introduction to Computer Organization

Unit(s):

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 112 Java Programming

Unit(s): 3

Class Hours: 48 Lecture total.

Study of the Java language, its features and applications.

Computer Science 117 PERL Programming and CGI

Unit(s): 3

Class Hours: 48 Lecture total.

Students will be introduced to the Perl scripting language syntax, data types, input/output, Managing System Processes, Database programming, CGI programming and Web Programming.

Computer Science 118 JavaScript Programming

Unit(s): 3

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

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

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 MCDST Preparation

Unit(s): 3

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 131 Data Structures Concepts

Unit(s): 3

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

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

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 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

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 141 Unix Operating System

Unit(s): 3

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

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

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

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

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

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

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

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

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

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

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 213 C# Programming

Unit(s): 3

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

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

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

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

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

Class Hours: 48 Lecture total.

Installation, management and configuration of Windows Small Business Server (SBS) 2011 for managing small business (25-75 Client) network environments. Recommended preparation: Knowledge of any client-level Windows operating system (e.g., Windows 7)

Computer Science 248 Microsoft SQL Server

Unit(s): 3

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

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

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. May be repeated. 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. May be repeated. Grade: Pass/No Pass Only.

Counseling 100 Lifelong Understanding and Self Development

Unit(s): 2

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

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

Class Hours: 48 Lecture total.

Integration of educational, socio-economic and psychological factors that contribute to success in college. Development of personal learning style as it interfaces with the linked college classes. Development of college-level learning skills.

Counseling 110 University Transfer Research

Unit(s): 0.5 - 2

Class Hours: 8-64 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

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. May be repeated.

Counseling 114 Careers in Teaching

Unit(s): 1

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

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

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

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

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

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

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

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

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 selfresponsibility and self-awareness will be emphasized.

CRIMINAL JUSTICE (CJ)

Criminal Justice 048 Writing Skills for Criminal Justice Personnel

Unit(s): 3

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 095 Drug Use and Identification

Unit(s): 2

Class Hours: 32 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 and search warrants.

Criminal Justice 101 (C-ID AJ 110) **Introduction to Criminal Justice**

Unit(s): 3

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 Introduction to Corrections

Unit(s): 3

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

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

Class Hours: 48 Lecture total.

Prerequisite: Full Background Check Re-

auired

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

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

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 Principles and Procedures in the Criminal Justice System

Unit(s): 3

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 Crime Scene Investigation

Unit(s): 3

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

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

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

Criminal Justice 111A Volunteer Internship Academy

Unit(s): 3

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

Class Hours: 120 Laboratory total.

Prerequisite: Criminal Justice 198, Volunteer Internship Academy or Criminal Justice 111A.

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

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

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

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 Juvenile Delinquency and Control

Unit(s): 3

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 Training/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 007 Tactics Convert & Crisis Entry

Unit(s): 0.3

Class Hours: 16 Laboratory total.

Prerequisite: Criminal Justice Academies 100. Provide updated and refresher training at the operations level. Learn to apply tactical theory in an emergency situation using practical application exercise. Emphasize officer safety and officer survival techniques. May be repeated. 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 Diaster 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

Class Hours: 96 Laboratory total.

Prerequisite: Criminal Justice Academies 100. 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.

Criminal Justice Academies 009C Narcotics Related Training

Unit(s): 0.1 - 0.5

Class Hours: 4-24 Laboratory total. Prerequisite: California POST Certified Sworn 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

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. May be repeated. 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

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

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 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. May be repeated. 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): 0.3

Class Hours: 16 Laboratory total.

This course is designed to prepare the student for the Basic Law Enforcement Academy, Criminal Justice Academies 100. It will include: drill, ceremony, physical training, reporting and speeches. May be repeated. Grade: Pass/No Pass Only.

Criminal Justice Academies 029A Explosive Devices Training

Unit(s): 0.1 - 0.8

Class Hours: 4-40 Laboratory total. Prerequisite: California POST Certified Peace

Training will provide updates on explosive devices: New technology, trends and intelligence information. Legally/State Mandated Training. Grade: Pass/No Pass

Criminal Justice Academies 033B Explorer Academy

Unit(s): 1

Class Hours: 40 Laboratory total. Prerequisite: Must be sponsored by Law

Enforcement Agency.

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: 40 Laboratory total.

Prerequisite: California POST Certified Sworn 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 be California P.O.S.T certified peace officer.

A Peace Officer Standards and Training certified course to train peace officers to become a member of a Special Weapons and Tactics team 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 047A Mounted Unit Training

Unit(s): 0.1 - 0.8

Class Hours: 4-40 Laboratory total. Course is designed to meet the training needs for mounted units: Crowd control, baton and weapons training. Legally/State Mandated Training. May be repeated. 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: Sponsored as a new employee by a California law enforcement agency or screened by CJA staff.

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: Meet with and be approved by the County of Orange Parks and Recreatiion department and CJA training staff.

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 059 Supervision

Unit(s): 1.6

Class Hours: 80 Laboratory total.

Prerequisite: Criminal Justice Academies 100. 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): 3

Class Hours: 136 Laboratory total. Prerequisite: Criminal Justice Academies 100.

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. May be repeated. 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

Class Hours: 200 Laboratory total. Prerequisite: Completion of admission requirements into the Criminal Justice Acad-

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

Criminal Justice Academies 083A Instructor Skills

Unit(s): 0.5 - 0.8

Class Hours: 24-40 Laboratory total. Prerequisite: California POST Certified Peace

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): 0.6

Class Hours: 32 Laboratory total.

Prerequisite: Criminal Justice Academies 100 or 021.

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. May be repeated. 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.

Prerequisite: To have been accepted to attend the Basic Police Academy (CJA 100A) as a sponsored trainee or self-sponsored students.

Preparatory course to prepare students for the rigors of the basic police academy. May be repeated. Grade: Pass/No Pass Only.

Criminal Justice Academies 100 Basic Police Academy

Unit(s): 24

Class Hours: 160 Lecture, 824 Laboratory

total.

Prerequisite: Criminal Justice Academies 010 and admission to the course through Criminal 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.

Criminal Justice Academies 100A Basic Police Academy

Unit(s): 19 - 21

Class Hours: 912-992 Laboratory total.
Prerequisite: Criminal Justice Academies 010
and admission to the course through Criminal
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

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

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

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

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

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

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

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

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 - 4

Class Hours: Arranged.

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. Prerequisite: Concurrent enrollment in a

dance class.

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. Prerequisite: Concurrent enrollment in a

dance class.

Provides studio rehearsal time to work out dance class assignments and rehearse for concert performances. New and different material each semester. 24 hour 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

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 21st century. Emphasizes the contemporary dance heritage of the United States.

Dance 100H

Honors Dance History and Appreciation

Unit(s): 3

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

An enriched honors course featuring intensive study of theatrical dance development in Western Europe and the U.S. from ancient times to the present. Utilizes writing, reading, critical thinking skills, required research, and student-initiated discussions in a seminar setting to explore dance history from cultural and aesthetic points of view.

Dance 102 **Introduction to Dance Forms**

Unit(s): 3

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

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

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

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

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

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 **Introduction to Ballet**

Unit(s): 1

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. May be repeated. May be repeated.

Dance 108B **Introduction to Ballet**

Unit(s): 1

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. May be repeated. May be repeated.

Dance 109 **Pilates Conditioning**

Unit(s): 0.5

Class Hours: 4 Lecture, 12 Laboratory total. Using exercises designed by Joseph Pilates, students develop strength, stability, coordination and control in the core muscles of the body. Applicable for dance, sports and general conditioning. May be repeated. Grade: Pass/No Pass Only.

Dance 110 **Beginning Mexican Folk Dance**

Unit(s): 1

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. May be repeated.

Dance 111 **Intermediate Mexican Folk Dance**

Unit(s): 1

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. May be repeated.

Dance 112 **Ethnic Dance**

Unit(s): 1

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. May be repeated.



Dance 113A Flamenco Dance I

Unit(s): 1

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. May be repeated.

Dance 113B Flamenco Dance II

Unit(s): 1

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. May be repeated.

Dance 115A Introduction to Tap Dance

Unit(s): 1

Class Hours: 8 Lecture, 24 Laboratory total. Introduction to basic tap dance technique. Focuses on the mastery of basic tap steps and simple dance combinations. Recommended for theatre and dance majors. Dance 115A prepares the student for Dance 115B. May be repeated.

Dance 115B Introduction to Tap Dance

Unit(s): 1

Class Hours: 8 Lecture, 24 Laboratory total.
Continued study in tap dance and basic skills necessary for execution of traditional tap dance steps and sequences.
Emphasizes mastery of basic steps leading to combination work in complete dances. Recommended for theatre and dance majors. Dance 115A recommended. May be repeated.

Dance 116 Introduction to Intermediate Tap Styles Unit(s): 1

Class Hours: 8 Lecture, 24 Laboratory total. Instruction in intermediate level tap dance, emphasizing varied styles including: rhythm tap, musical theatre technique, and traditional styling. Personal skills are refined through the acquisition of intermediate level tap steps and combinations. Repertoire varies every semester. May be repeated.

Dance 117

Introduction to Middle Eastern Dance Unit(s): 1

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. May be repeated.

Dance 118 Introduction to Caribbean and Latin Dance Styles

Unit(s): 1

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. May be repeated.

Dance 119A Introduction to Jazz Dance

Unit(s): 1

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. May be repeated.

Dance 119B Introduction to Jazz Dance

Unit(s): 1

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.
May be repeated.

Dance 120 Introduction to Hip-Hop Dance

Unit(s): 1

Class Hours: 8 Lecture, 24 Laboratory total.
An introduction to Hip-Hop dance emphasizing movement technique, dance vocabulary and creative expression.
Includes learning routines and the history and culture of Hip-Hop dance. No prior experience necessary. May be repeated.

Dance 121 Intermediate Hip-Hop Dance

Unit(s): 1

Class Hours: 8 Lecture, 24 Laboratory total.

A continuation of the study of Hip-Hop dance emphasizing movement technique, dance vocabulary and creative expression. Includes more complicated movements, advanced dance combinations and an overview of the historical and cultural context of Hip-Hop. Beginning Hip-Hop recommended. May be repeated.

Dance 122 Commercial Jazz Dance

Unit(s): 1

Class Hours: 8 Lecture, 24 Laboratory total. Instruction for the continuing jazz student in the technical steps, styles, audition techniques and performance skills necessary to be a jazz dancer in commercial settings such as television, industrials, cruise ships, music videos, etc. May be repeated.

Dance 123 Introduction to Salsa Dance

Unit(s): 1

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.
May be repeated.

Dance 124 Intermediate Salsa Dance

Unit(s): 1

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. May be repeated.

Dance 130 Dance Improvisation

Unit(s): 1

Class Hours: 8 Lecture, 24 Laboratory total.

An introduction to structured dance improvisation emphasizing movement invention and structural intuition, group dynamics of working in small and large groups and concepts of weight dependency. Prior completion of dance technique course highly recommended. May be repeated.

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. May be repeated. Grade: Pass/No Pass Only.

Dance 140 Dance Repertory Workshop

Unit(s): [·]

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. May be repeated. Grade: Pass/No Pass Only.



Dance 201A Ballet I

Unit(s): 2

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

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

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 nonmajors only.

Dance 202B **Choreography for Dance Majors**

Unit(s): 3

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): 3

Class Hours: 16 Lecture, 104 Laboratory total. Prerequisite: Audition.

For students interested in performing in the SAC dance concert. Includes production basics, with an emphasis on working with faculty/student choreographers on original dances. Focus on performance.

Dance 204B **Dance Production**

Unit(s): 3

Class Hours: 16 Lecture, 104 Laboratory total. Prerequisite: Dance 202A or 202B and Audi-

For students interested in 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

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

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. Video, concerts, and master classes enrich the course. Prepares the student for Dance 206B. May be repeated.

Dance 206B Modern Dance II

Unit(s): 2

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. May be repeated.

Dance 209 **Modern Dance III**

Unit(s): 2

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

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. May be repeated.

Dance 213 Ballet III

Unit(s): 2

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. May be repeated.

Dance 214 **Ballet IV**

Unit(s): 2

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. May be repeated.

Dance 215A Tap Dance I

Unit(s): 2

Class Hours: 16 Lecture, 48 Laboratory total. Instruction to tap dance and basic skills necessary for execution of traditional and contemporary tap dance steps and sequences. Emphasis on mastery of beginning level steps leading to combination work and complete dances. Recommended for theatre and dance majors. Dance 215A prepares the student for Dance 215B. May be repeated.

Dance 215B Tap Dance II

Unit(s): 2

Class Hours: 16 Lecture, 48 Laboratory total. Continued development of skills in the execution of traditional and contemporary tap dance steps and sequences. Emphasis on mastery of basic steps, leading to combination work in complete dances. Recommended for theatre and dance majors. Repertoire in 215B differs from 215A. Prepares student for Dance 216. Dance 215A recommended. May be repeated.



Dance 216 Tap Dance III

Unit(s): 2

Class Hours: 16 Lecture, 48 Laboratory total. Provides intermediate level tap students the opportunity to further develop skills through intermediate level tap steps and combinations. Emphasizes choreography, rhythm tap styles, musical comedy tap technique, and performance style. May be repeated. Prior completion of Dance 215AB recommended. May be repeated.

Dance 219A Jazz Dance I

Unit(s): 2

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. May be repeated.

Dance 219B Jazz Dance II

Unit(s): 2

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.
May be repeated.

Dance 220 Jazz Dance III

Unit(s): 2

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

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

Class Hours: 8 Lecture, 24 Laboratory total. Prerequisite: Completion of a prior dance class, or concurrent enrollment, and audition.

The study of partnering in modern, jazz, and classical choreography. Includes duets, groups, and choreography involving any body contact or shifting of weight from one individual to another. Experience differs each semester. May be repeated.

Dance 240A Repertory I

Unit(s): 2

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

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 270 Dance Internship

Unit(s): 2

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. May be repeated. Grade: Pass/No Pass Only.

Dance 296 Special Studies in Modern Dance

Unit(s): 1

Class Hours: 8 Lecture, 24 Laboratory total.
An intermediate/advanced level course offering individualized and accelerated instruction in modern dance techniques.
May be repeated. Grade: Pass/No Pass Only.

Dance 297 Special Studies in Jazz Dance

Unit(s): 1

Class Hours: 8 Lecture, 24 Laboratory total. An intermediate/advanced level course offering individualized and accelerated instruction in jazz dance techniques. May be repeated. Grade: Pass/No Pass Only.

Dance 298 Special Studies in Dance

Unit(s): 1

Class Hours: 8 Lecture, 24 Laboratory total. Prerequisite: Must complete two dance courses in ballet, jazz or modern dance.

An intermediate/advanced level course

An intermediate/advanced level course offering individualized and accelerated instruction in dance techniques. May be repeated. Grade: Pass/No Pass Only.

DIESEL (DSL)

Diesel 003

Introduction to Diesel/Hybrid Vehicles

Unit(s):

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

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 Overhaul

Unit(s): 8

Class Hours: 64 Lecture, 192 Laboratory total. Inspection, service and overhaul procedures used on medium and heavy duty axles, steering and suspension components, clutches, transmissions, drivelines, differentials and air brake 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

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.

May be repeated.



Diesel 015

Introduction to Heavy Duty Mobile Hydraulics

Unit(s): 4

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

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): 4

Class Hours: 32 Lecture, 96 Laboratory total. Theory, component construction, diagnosis and service of instrument systems. Preparation for California Lamp and ASE Examination. Students must furnish hand tools and safety equipment. Suggested preparation: Diesel 022.

Diesel 025

Diesel and Heavy Duty Vehicle Engine Overhaul

Unit(s): 8

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

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 heavyduty diesel engines. Students must furnish safety equipment and protective clothing.

Diesel 040

Diesel Electrical Systems

Unit(s): 5

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

Class Hours: 96 Lecture, 96 Laboratory total. Theory and operation of truck, trailer, and container single and multi-temperature 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

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. May be repeated.

Diesel 062

Air Conditioning and Heating

Unit(s): 3

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. May be repeated. Grade: Pass/No Pass Only.

Diesel 069

Paratransit Driver Training

Unit(s): 1

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. May be repeated.

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. May be repeated. 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. May be repeated. 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. May be repeated. 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. May be repeated. 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. May be repeated. 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. May be repeated.
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. May be repeated. 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. May be
repeated. 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. May be repeated. Grade:
Pass/No Pass Only.

Diesel 095 Diesel Lab Experience

Unit(s): 0.5 - 4

Class Hours: Arranged.

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

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

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

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 Introduction to Oceanography

Unit(s): 3

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

Prerequisite: A high school or college GPA of 3.0 or above.

Class Hours: 48 Lecture total.

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

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

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

Class Hours: 48 Lecture, 32 Laboratory 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. Two to three additional hours per week will be arranged for field experience in a local school. Minimum of 32 hours total is required.

Education 204 Personal Proficiency in Educational Technologies for Secondary Teachers

Unit(s): 3

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

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

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

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

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): 7.5

Class Hours: 92 Lecture, 84.5 Laboratory total.

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. May be repeated.

Emergency Medical Technician 105 Clinical EMT Skills Laboratory

Unit(s): 0.5

Class Hours: 24 Laboratory total.

Supervised use of skills lab to assist the student in development of clinical competency and mastery of psychomotor skills. Hours verified by instructor. May be repeated. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Emergency Medical Technician 111 Recertification for EMT I-Basic

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 Blueprint Reading

Unit(s): 2

Class Hours: 32 Lecture total.

Reading and interpreting blueprints for manufacturing. (Same as Manufacturing Technology 011.)

Engineering 012 AEC Blueprint Reading

Unit(s): 3

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

Class Hours: 32 Lecture, 64 Laboratory total. Fundamentals of electronic drafting. Includes symbols, schematics, cable drawings, logic diagrams, printed circuit board layout, and electromechanical desian.

Engineering 051 Basic Technical Drawing

Unit(s): 3

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

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, and guest speakers.

Engineering 100B Introduction to Architecture/Civil **Engineering /Construction (AEC)**

Unit(s): 2

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

Class Hours: 48 Lecture, 32 Laboratory total. Introductory course in parametric solid modeling. This course will include a solid modeling overview, solid model construction techniques (extrude, revolve, sweep, primitive, fillet, chamfer, etc.), including the preparation of individual solid components and basic solid model assemblies. (Same as Manufacturing Technology 103.). May be repeated.

Engineering 104 Solidworks Intermediate Solid Modeling

Unit(s): 3

Class Hours: 48 Lecture, 32 Laboratory 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.). May be repeated.

Engineering 105 Solidworks Advanced Solid Modeling

Unit(s): 3

Class Hours: 48 Lecture, 32 Laboratory 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.). May be repeated.



Engineering 110 Advanced CAD Applications

Unit(s): 0.5 - 4 Class Hours: Arranged.

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

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

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 Engineering 011 or Engineering 122. (Same as Manufacturing Technology 114.)

Engineering 115 Cooperative Work Experience EducationOccupational

Unit(s): 1 - 4

Class Hours: Arranged.

Supervised paid or volunteer experience in student's major including new or expanded responsibilities. One unit 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. Student must be enrolled in a minimum of 7 units including 4 units for Engineering 115. Grade: Pass/No Pass Only.

Engineering 118 Plane Surveying

Units: 4

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-in-training exam. Completion of Math 160 recommended.

Engineering 119 Advanced Plane Surveying Units: 4

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

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

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

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

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

Class Hours: 32 Lecture, 48 Laboratory total. Intermediate course in parametric solid modeling CAD using CATIA software. Topics intermediate level sketching, modeling (ribs, slots, lofts), feature transformation, assemblies, drafting workbench, surface modeling, and other CATIA modules. Suggested Preparation: Engineering 130A.

Engineering 132 Introduction to Robotics

Unit(s): 3

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

Class Hours: 32 Lecture, 48 Laboratory total. Introductory course in parametric solid modeling CAD using ProEngineer software. Topics include sketches, sketch contraints, part modeling and editing, assemblies, drawing creation and views, dimensioning, and annotations.

Engineering 140B ProEngineer Solid Modeling II

Unit(s): 3

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

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): 3

Class Hours: 32 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

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): 4

Class Hours: 48 Lecture, 48 Laboratory 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

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

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

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

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

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

Class Hours: 16 Lecture, 112 Laboratory total. Prerequisite: Successful completion or concurrent enrollment in Engineering 011, 051, 122, 124, 125; or Manufacturing Technology 011.

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

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

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

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

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

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

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

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

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

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

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 N10

Preparation for Nursing 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.

English N50

Introduction to Written Communication

Unit(s): 3

Class Hours: 48 Lecture total.

Prerequisite: Qualifying profile from English placement process. Qualifying profile from English placement process.

Introduction to written communication including autobiographical, journal and summary writing, and responding to essays. Basic grammar and punctuation. Not applicable to associate degree. Students may be referred to the Writing Center.

English N60 Basics of Effective Writing

Unit(s): 3

Class Hours: 64 Lecture, 16 Laboratory total. Prerequisite: Grade of C or better in English 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. 16 additional hours in Writing Center required (one hour per week for 16-week semester sections).

English 061

Introduction to Composition

Unit(s): 3

Class Hours: 64 Lecture, 16 Laboratory 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. 16 additional hours in Writing Center required.

English 101 Freshman Composition

Unit(s): 4

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

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

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

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 101H.

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

Class Hours: 64 Lecture total.

Prerequisite: English 101 or 101H 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

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 101H.

Enriched and intensive exploration of historical and contemporary issues. Application of critical thinking, writing and reading skills to established argumentative methods and models through student initiated discussion and problem-solving in a seminar setting.

English 104 Language and Culture

Unit(s): 3

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):

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 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.) Prerequisite: High school or college GPA of 3.0 or above.

English 206 Introduction to Language Structure and Use

Unit(s): 3

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

Class Hours: 48 Lecture total. Prerequisite: English 101 or 101H.

Writing techniques focusing on fiction. Workshop format, emphasis on writing and critiquing. Repeated courses will focus on different genres: short story, novel, and drama. May be repeated.

English 212

Creative Writing II/Fiction

Unit(s): 3

Class Hours: 48 Lecture total. Prerequisite: English 211.

Writing techniques focusing on fiction. Workshop format, emphasis on writing and critiquing. Repeated courses will focus on different genres: short story, novel, and drama. May be repeated.

English 214 **Creative Writing I/Poetry**

Unit(s): 3

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. May be repeated.

English 215 **Creative Writing II/Poetry**

Unit(s): 3

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. May be repeated.

English 220

Survey of the Bible As Literature

Unit(s): 3

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

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

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,

English 233A

Shakespeare's Comedies and Romances

Houseman, Yeats, Wilde and Woolf.

Unit(s): 3

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

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

Class Hours: 48 Lecture total. Prerequisite: English 101 or 101H.

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

Class Hours: 48 Lecture total. Prerequisite: English 101 or 101H.

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 (Formerly: Survey of American Literature 1600-1860)

Unit(s): 3

Class Hours: 48 Lecture total. Prerequisite: English 101 or 101H.

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 (Formerly: Survey of American** Literature, 1860 - Present)

Unit(s): 3

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

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

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 African-American images.

English 246 **Survey of Chicano Literature**

Unit(s): 3

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

Class Hours: 48 Lecture total.

Prerequisite: English 101 or 101H 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, nonfiction, and fiction, including full-length works.



English 271 Survey of World Literature

Unit(s): 3

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

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

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 N40A Introduction to Academic ESL I

Unit(s): 3

Class Hours: 96 Lecture total.

Prerequisite: Qualifying profile from ESL

placement process.

A beginning academic ESL course for students who have had some exposure to English. Practice in listening, speaking, reading, grammar, and study skills. Controlled writing at the sentence level. Lab may be required. Not applicable to associate degree. Grade: Pass/No Pass Only.

English As a Second Language N40B Introduction to Academic ESL II

Unit(s): 3

Class Hours: 96 Lecture total.

Prerequisite: Credit in ESL N40A or qualifying profile from ESL placement process.

A beginning academic ESL course for students who have had some exposure to English. Emphasis is on the simple tenses and the development of listening, speaking, reading, grammar, and study skills. Controlled writing at the sentence level. Lab may be required. Not applicable to associate degree. Grade: Pass/No Pass Only.

English As a Second Language N49 Reading, Writing and Grammar I

Unit(s): 3

Class Hours: 96 Lecture, 16 Laboratory total. Prerequisite: ESL N40B or qualifying profile from ESL placement process.

Beginning multi-skill language practice. Sentence practice and controlled composition. Revision and editing. Basic grammar including simple and progressive verb tenses. Critical reading. Lab hours are required. Not applicable to associate degree.

English As a Second Language N88 Verb Tenses

Unit(s): 1.5

Class Hours: 24 Lecture, 6 Laboratory total. Prerequisite: Eligible for EMLS 107 or higher. Intensive oral and written practice with verb forms and tenses in a variety of contexts. Laboratory is required. May be taken after ESL N89.

ENGLISH FOR MULTILINGUAL STUDENTS (EMLS)

English For Multilingual Students 055 Writing, Grammar and Reading I

Unit(s): 4

Class Hours: 96 Lecture, 16 Laboratory total. Prerequisite: Grade of C or better in ESL N49 or 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. 16 additional hours in ESL Listening Lab required (one hour per week for 16-week semester sections).

English For Multilingual Students 107 Writing, Grammar and Reading II

Unit(s): 4

Class Hours: 96 Lecture, 16 Laboratory 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. 16 additional hours in ESL Listening Lab required (one hour per week for 16-week semester sections).

English For Multilingual Students 109 Writing, Grammar and Reading III

Unit(s): 4

Class Hours: 96 Lecture, 16 Laboratory 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. 16 additional hours in ESL Listening Lab required (one hour per week for 16-week semester sections).

English For Multilingual Students 110 Introduction to the Essay

Unit(s): 3

Class Hours: 64 Lecture, 16 Laboratory 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. Lab hours are required.

English For Multilingual Students 112 Advanced Composition

Unit(s): 3

Class Hours: 64 Lecture, 16 Laboratory 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. 16 hours (1 hour per week) required in Writing Center.

ENTREPRENEURSHIP (ENTR)

Entrepreneurship 100 Introduction to Innovation and Entrepreneurship

Unit(s): 3

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.



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 ESL/EMLS courses should also enroll at the same time in a Reading class and possibly a pronunciation class to improve their English faster.

Many high school graduates taking the TELD place in EMLS 109, 3 steps below English 101, the same level as English N50. However, 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 N50, 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 CR.

ESL/EML	S COURSE	COMMUNICATION STUDIES COURSE	READING COURSE	
LOW INTERMEDIATE LEVEL COURSES				
	ESL N40A	Communication Studies N49	no reading class recommended	
	ESL N40B	Communication Studies N49	Reading N49A/B	
	ESL N49	Communication Studies N49 or N50	Reading N49A/B	
INTERMEDIATE LEVEL COURSES				
CEC Transfers often place here	EMLS 055	Communication Studies N52A	Reading N50A/B or N80A/B	
	EMLS 107	Communication Studies N52AB	Reading N80AB	
High School Grads often place here	EMLS 109	Communication Studies 096, 097 or N53	Reading N90AB or 091	
	ADVANCED LEVEL COURSES			
	EMLS 110	Communication Studies 096, 097 or N53	Reading N90AB or 091	
	EMLS 112	Communication Studies N50 or N51	Reading 102	
FRESHMAN COMPOSITION				
	English 101	Communication Studies 101 or 102	Reading 150	
	EMLS 107 through 112 are CSU transferable. English N50, N60 and 061 are not.			

Entrepreneurship 101 Entrepreneurs and Success

Unit(s): 1

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. May be repeated.

Entrepreneurship 102 **Entrepreneurial Ideas and Creativity**

Unit(s): 1

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. May be repeated.

Entrepreneurship 103 Innovations and Opportunities

Unit(s): 2

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

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. May be repeated.

Entrepreneurship 105 Social Media, Bootstrapping, and Market Validation

Unit(s): 2

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. May be repeated.

Entrepreneurship 106 **Building an Entrepreneurial Team**

Unit(s): 2

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. May be repeated.



Entrepreneurship 107 Money, Finance and Accounting for Entrepreneurs

Unit(s): 2

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. May be repeated.

Entrepreneurship 108 Business Plans for Entrepreneurs

Unit(s): 2

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. May be repeated.

Entrepreneurship 109 Powerful Presentations

Unit(s): 2

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. May be repeated.

Entrepreneurship 110 Capstone Business Simulations

Unit(s): 3

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

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

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

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

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

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

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

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

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

Historical and cultural survey of ethnic groups and relations in the U.S. among 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

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

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 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.



FAMILY & CONSUMER STUDIES (FCS)

Family & Consumer Studies 120 Life Management

Unit(s): 3

Class Hours: 48 Lecture total.

Provides individuals with skills for understanding and using internal and external resources to function effectively in the present and future society. Includes: self assessment, decision making, time and energy management and interpersonal relationship management.

FASHION DESIGN MERCHANDISING (FDM)

Fashion Design Merchandising 005 Fashion Laboratory

Unit(s): 0.5 - 1

Class Hours: 24-48 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

Class Hours: 16 Laboratory total.

Advanced level of supervised use of the fashion laboratory. Lab hours vary by signin. 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

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

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

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

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

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

Fashion Design Merchandising 100 Introduction to Fashion

Unit(s): 3

Class Hours: 48 Lecture total.

Traces and analyzes the fashion industry. trends, and designers from socio-economic, political, technological, and global influences; emphasis on current fashion

Fashion Design Merchandising 101 Buying and Merchandising

Unit(s): 3

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

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

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

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

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

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

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

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

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 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

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

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

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 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

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

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

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

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

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

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

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 - 4

Class Hours: Arranged.

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, 126 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. May be repeated. 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 physical ability requirements. Grade: Pass/No Pass Only.

Fire Academy 008A **Firefighter I Physical Ability Practice**

Unit(s): 0.1

Class Hours: 2 Lecture, 2 Laboratory total. Assists the student in developing the physical abilities and skills to perform better on fire department physical ability tests. May not be used to obtain eligibility for the basic fire academy. May be repeated. Grade: Pass/No Pass Only.

Fire Academy 008B **Beginning Physical Ability Training**

Unit(s): 0.3

Class Hours: 4 Lecture, 12 Laboratory total. Specific conditioning exercises prepare student for participation in Fire Academy 008 Physical Ability class. Students will perform physical exercises using fire hose, ladders, stairs, and calisthenics, proper body mechanics, lifting techniques and physical conditioning principles. May be repeated. Grade: Pass/No Pass Only.

Fire Academy 008C **Intermediate Physical Ability Training**

Unit(s): 0.3

Class Hours: 4 Lecture, 12 Laboratory total. Specific conditioning exercises prepare student for participation in Fire Academy 008 Physical Ability class. Students will perform physical exercises using fire hose, ladders, stairs, and calisthenics, proper body mechanics, lifting techniques and physical conditioning principles. May be repeated. Grade: Pass/No Pass Only.

Fire Academy 008D **Advanced Physical Ability Training**

Unit(s): 0.3

Class Hours: 4 Lecture, 12 Laboratory total. Specific conditioning exercises prepare student for participation in Fire Academy 008 Physical Ability class. Students will perform physical exercises using fire hose, ladders, stairs, and calisthenics, proper body mechanics, lifting techniques and physical conditioning principles. May be repeated. Grade: Pass/No Pass Only.

Fire Academy 009 **Basic Wellness & Fitness Assessment for Public Safety Personnel**

Unit(s): 2

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 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

Class Hours: 23 Lecture, 17 Laboratory total. Prepares emergency responders for confined space entry and rescue. Meets CFSTES guidelines for professional certification. 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

Class Hours: 266 Lecture, 294 Laboratory

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

Class Hours: 266 Lecture, 294 Laboratory

Prerequisite: Grade C or better in Fire Technology 101, 102, 103, 104, 105, 106, 121; Fire Academy 008; EMT 100; meet NFPA 1582 medical examination, concurrent enrollment

State of California as an EMT.

California State Board of Fire Services/ Firefighter I approved, criteria available.

in Fire Academy 007, and certification in the

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. 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

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 fire-fighters 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

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 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 080C S-205 Urban Wildland Interface Firefighting

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. 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 086 Haz-Mat Response Seminar

Unit(s): 0.2

Class Hours: 8 Lecture total.

Designed to provide knowledge of capabilities and equipment of haz-mat teams; information regarding county waste management and household waste disposal sites. Grade: Pass/No Pass Only.

Fire Academy 088 City Emergency Response Team

Unit(s): 1

Class Hours: 48 Lecture total.

Terrorism response issues, theories, and methodologies for disaster mitigation. May be repeated. Grade: Pass/No Pass Only.

Fire Academy 200 Fire Public Education Officer 1

Unit(s):

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

Class Hours: 40 Lecture total.

Skills and knowledge necessary for performing fire company inspections. California State Board of Fire Services Standards for Fire Prevention O Officer I and Public Education Officer 1.



Fire Academy 231B **Fire Prevention Officer 1B**

Unit(s): 1

Class Hours: 40 Lecture total.

Advanced skills and knowledge for certified Fire Officer, certified Fire Prevention Officer I, and certified Public Education Officer L candidates.

Fire Academy 231C **Fire Prevention Officer 1C**

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

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

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

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

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**

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 Fire Instructor 1A

Unit(s): 1

Class Hours: 40 Lecture total.

Prerequisite: Fire Technology 101 and 102. 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 **Fire Instructor 1B**

Unit(s): 1

Class Hours: 40 Lecture total. Prerequisite: Fire Academy 241A.

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

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

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

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

Class Hours: 40 Lecture total.

Designed to assist instructors in certifying as a master instructor.

Fire Academy 251A Fire Investigation 1A

Unit(s): 1

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

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

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

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

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

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

Fire Academy 262B Fire Management 2B: Financial Management

Unit(s): 1

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

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

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

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

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

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

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

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

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

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

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

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 006C Firefighter Bargaining

Unit(s): 0.2

Class Hours: 16 Lecture total.

Knowledge of firefighter negotiations and bargaining procedures. 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 006E CSFA Leadership

Unit(s): 0.2

Class Hours: 8 Lecture total.

Provides information and sample techniques for CSFA Leadership in the appraisal, evaluation and selection process. Grade: Pass/No Pass Only.

Fire Officer Training 008A Division/Group Supervisor S-339

Unit(s): 0.4

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 008B I-429 Command and General Staff

Unit(s): 0.4

Class Hours: 20 Lecture total.

Designed to orient firefighters in the command and staff structure that will provide safe and effective control of wildland fires. Not offered every semester. 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. Grade: Pass/ No Pass Only.

Fire Officer Training 008D Division Group Supervisor

Unit(s): 0.4

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 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. Grade: Pass/No Pass Only.



Fire Officer Training 009 **Career Firefighter Mini Academy**

Unit(s): 1

Class Hours: 205 Lecture, 315 Laboratory total.

Career firefighter mini academy is designed to assure a basic and predictable level of knowledge, skills and ability among those individuals destined for assignment to a Career fire crew. This course is designed to meet minimum departmental requirements for safety. May be repeated. Grade: Pass/No Pass Only.

Fire Officer Training 010 **Career Firefighter Lateral Academy**

Unit(s): 5

Class Hours: 132 Lecture, 124 Laboratory

total

Designed to assure a basic and predictable level of knowledge, skills and ability among those individuals destined for lateral transfer into a career fire position. This course is designed to meet minimum departmental and county requirements for safety. Grade: Pass/No Pass Only.

Fire Officer Training 011B **Structural Collapse Technician**

Unit(s): 2

Class Hours: 18 Lecture, 62 Laboratory total. Designed to train firefighters in the rescue techniques and extrication used in structural building collapse. Not offered every semester. Grade: Pass/No Pass Only.

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 firefighting is a course designed to teach fire crews the principles of backfire/burnout and the necessary firing techniques and related firing devices used to accomplish either of these suppression methods. Grade: Pass/No Pass Only.

Fire Officer Training 078C S-371 Helibase Manager

Unit(s): 0.7

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: 32 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. 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

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 PUBLIC SAFETY (FSA)

Fire Public Safety 060 **Career Firefighter County Academy**

Unit(s): 13

Class Hours: 285 Lecture, 355 Laboratory

total.

Career firefighter county academy is designed to assure a basic and predictable level of knowledge, skills and ability among those individuals destined for assignment to a career fire crew. This course is designed to meet minimum department requirements for safety. May be repeated. Grade: Pass/No Pass Only.

Fire Public Safety 100 **Fire Marine Advanced EMS**

Unit(s): 4

Class Hours: 160 Lecture, 40 Laboratory total. Advanced EMS Skills and Protocols for Fire Marine patient rescues in the life quarding environment.Includes AED training and communications. Not offered every semester.

FIRE TECHNOLOGY (FTC)

Fire Technology 101 **Fire Protection Organization**

Unit(s): 3

Class Hours: 48 Lecture total.

Survey of career opportunities in fire service and related fields, history of fire protection; fire loss analysis; public, quasipublic and private fire protection services; specific fire protection functions; fire chemistry and physics.

Fire Technology 102 **Fire Behavior and Combustion**

Unit(s): 3

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

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**

Class Hours: 48 Lecture total.

Prerequisite: Fire Technology 101 and 102. 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

Class Hours: 48 Lecture total.

Prerequisite: Fire Technology 101 and 102. 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**

Class Hours: 48 Lecture total.

Prerequisite: Fire Technology 101 and 102. 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): 4

Class Hours: 48 Lecture, 84 Laboratory total. This lecture/laboratory class provides information on exercise and nutrition. Topics include cardiovascular/muscular fitness, injury prevention and treatment. Students will receive an individual fitness profile developed from tests given during the arranged hours of the class.

FRENCH (FREN)

French 101 **Elementary French 1**

Unit(s): 5

Class Hours: 80 Lecture, 16 Laboratory 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. Sixteen additional hours in the Modern Language Lab required. (One hour per week for 16-week semester sections and two hours per week for 8-week summer sessions).

French 102 **Elementary French II**

Unit(s): 5

Class Hours: 80 Lecture, 16 Laboratory 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. Appropriate laboratory assignments. French 102 is equivalent to the third year of high school French.

French 201 **Intermediate French I**

Unit(s): 5

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

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/evaluate library and electronic information sources.

French 202 Intermediate French II

Unit(s): 5

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

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/evaluate library and electronic information sources.

French 211 **Intermediate Conversation and** Composition I

Unit(s): 2

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

Class Hours: 32 Lecture total. 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

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. May be repeated.

Geography 100H **Honors World Regional Geography**

Unit(s): 3

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. May be repeated.

Geography 101 **Physical Geography**

Unit(s): 3

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

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

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.

Geography 102H Honors Cultural Geography

Unit(s): 3

Class Hours: 48 Lecture total.

Prerequisite: High school or college GPA of

3.0 or above.

Enriched and intensive examination of the geography of culture with an emphasis on the application of geographic principles and concepts to historic and contemporary issues of human geography. A seminar setting is employed to enhance and promote the participation of the students in discussions related to the analysis of common readings, film, and current events-related topics.

GEOLOGY (GEOL)

Geology 101 Introduction to Geology

Unit(s): 3

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

Class Hours: 48 Laboratory total. Prerequisite: Geology 101 or concurrent

enrollment.

Study of the common minerals and rocks. Map reading and interpretation of geology using topographic maps, geologic maps and aerial photos.

Geology 111

Dinosaurs and the Geology of the Mesozoic Era

Unit(s): 1

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, oneday field trip.

Geology 112 **Earthquakes**

Unit(s): 1

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

Class Hours: 48 Lecture total.

Introduction to environmental geology, the interaction between the Earth and mankind. Global study of geologic resources, resource management, geologic hazards, and waste remediation. (Same as Environmental Studies 140).

Geology 150 Introduction to Oceanography

Unit(s): 3

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

Class Hours: 48 Lecture total.

Prerequisite: High School or college G.P.A. of

3.0 or above.

An enriched study of the ocean's topography, sediments, circulation, shoreline processes, biological productivity and mineral resources. (Same as Earth Science 150H).

Geology 161

Geological Field Studies of the Southern San Andreas Fault

Unit(s): 1

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.

Geology 162 Geologic Field Studies of the Mojave Desert

Unit(s): 1

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.

Geology 163 Geological Field Studies of the Northern San Andreas Fault

Unit(s): 2

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

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.

Geology 165 Geologic Field Studies of the Western Mojave Desert

Unit(s): 1

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.

Geology 166 Geologic Field Studies of the Sierra Nevada

Unit(s): 2

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.

Geology 167 Geologic Field Studies of the Eastern Mojave Desert

Unit(s): 1

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.

Geology 168 Geologic Field Studies of the Owens Valley

Unit(s): 1

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.

Geology 169 Geologic Field Studies of San Diego County

Unit(s): 1

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.

Geology 170 Geologic Field Studies of the Anza-Borrego Desert State Park

Unit(s): 1

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.

Geology 171

Geology Field Studies of Sequoia and Kings Canyon National Parks

Unit(s): 1

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.

Geology 172 Geologic Field Studies of the California Coast

Unit(s): 2

Class Hours: 32 Lecture total.

A study of the coastal rocks, fossils and faults, as well as coastal oceanographic processes from Malibu to Monterey. Mandatory orientation along with a five-day field study.

Geology 173 Geologic Field Studies of Death Valley

Unit(s): 1

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.

Geology 174

Geologic Field Studies of Joshua Tree National Park

Unit(s): 1

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.

Geology 176

Geologic Field Studies of the San Bernardino and San Gabriel Mountains

Unit(s): 1

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.

Geology 201 Introduction to Historical Geology

Unit(s): 4

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

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

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

An enriched approach designed for honors students with emphasis on individual research as well as small group analysis of historical problems. 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

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

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

An enriched approach designed for honors students with emphasis on individual research as well as small group analysis of historical problems. Broad historical study of world civilizations and their interrelationships from the 16th century to the present. Ideas, institutions, personalities, and artistic achievements which have contributed to present-day society.

History 105 Ancient Mesoamerican Civilization

Unit(s): 3

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

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

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 1865**

Unit(s): 3

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

Seminar-style, content-enriched course for Honors students that examines major political, economic, intellectual, and social forces at home and abroad shaping American life from colonial period through Civil War.

History 121 **The United States Since 1865**

Unit(s): 3

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

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

Seminar-style, content-enriched course for honors students exploring a critical analysis of American history including industrial and technological development, the changing nature of society, cultural patterns, domestic politics, artistic attainments, and America's expanded world role.

History 122

American History-Dynamics of Change

Unit(s): 3

Class Hours: 48 Lecture total.

Survey of the main cultural, economic, social, and political changes in American history. Fulfills the American institutions requirement for graduation. No credit to students with credit in History 120, 121.

History 123

African American History to 1865

Unit(s): 3

Class Hours: 48 Lecture total.

Surveys the history of African Americans in the United States from their African origins through the Civil War. Emphasizes African American impact on U.S. economic and political life, and highlights the effect slavery had on selected American thinkers.

Mexican-American History in the United States

Unit(s): 3

Class Hours: 48 Lecture total.

Survey of Mexican-American history in the U.S. from the Pre-Columbian period to the present. Emphasis on Mexican-American contributions to the political, social, economic, and cultural development of the U.S. Will also examine the relationship of Mexican-Americans to other cultural groups.

History 124H

Honors Mexican-American History in the **United States**

Unit(s): 3

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

Enriched and intensive survey of Mexican-American history in the U.S. from the Pre-Columbian period to the present. Utilizing a seminar approach, emphasis on Mexican-American contributions to the political, social, economic, and cultural development of the U.S. Will also examine the relationship of Mexican-Americans to other cultural groups.

History 125

Native Americans in the U.S.

Unit(s): 3

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

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 128H

Honors America and the Quest for Global Reform

Unit(s): 3

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of

A course designed for honors students using a seminar format, the internet, roleplaying and student facilitated discussion. Highlights America's role in working with other nations to address such global perils as nuclear and bio-chemical weapons, war, ethnic and religious conflict, environmental degradation, poverty, and social injustices. Stresses how societal change occurs.

History 133 **History of California**

Unit(s): 3

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

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

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

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

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

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

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

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 Processes

Unit(s): 3

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 Child Growth and Development (DS1)

Unit(s): 3

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

Class Hours: 48 Lecture, 15 Laboratory 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

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 Principles and Practices of Teaching Young Children

Unit(s): 3

Class Hours: 48 Lecture, 6 Laboratory 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

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

Class Hours: 48 Lecture total.

Prerequisite: HUD-108A and HUD-111. Nega-

tive TB Test.

This course examines the regulations, policies, procedures and best practices for early childhood curriculum related to child health, safety, and nutrition, while supporting child development through everyday planning and school programming. The importance of collaboration with families and health professionals to ensure physical health, mental health and safety for all children, families, and professionals will be explored.

Human Development 113 Tutoring Reading in Elementary Schools

Unit(s): 1

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 Teaching

Unit(s): 1

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

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

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

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

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

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

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

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

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

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

Class Hours: 48 Lecture total.

Exploration of battered, molested and neglected children from five vantage points: child, law, parents, social services and educator.

Human Development 221 Teaching in a Diverse Society

Unit(s): 3

Class Hours: 48 Lecture total.

Examination of the development of social identities in diverse societies, and implications of oppression and privilege as they apply to young children, families, programs, classrooms and teaching. Classroom strategies will be explored emphasizing culturally and linguistically appropriate anti-bias approaches, self-examination, and reflection on issues related to social identity, stereotypes and bias, social and educational access, media and schooling.

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

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

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

Class Hours: 48 Lecture total.

Designed to introduce students to basic concepts of the 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

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

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/

Human Development 260 Youth in the Foster Care System

Class Hours: 48 Lecture total.

No Pass Only.

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 childcentered, 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 - 4

Class Hours: Arranged.

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

Interdisciplinary Studies 117H Honors Introduction to Global Studies

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

A multidisciplinary student-driven social science course dealing with a conceptual approach to the cultural, political and economic implications of globalization. Study groups and individual 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

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

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

Class Hours: 48 Lecture total. Prerequisite: English 101 or 101H 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

Class Hours: 80 Lecture, 16 Laboratory 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. Sixteen additional hours in the Modern Language Lab required. (One hour per week for 16week semester sections and two hours per week for 8-week summer sessions.)

Japanese 102 Elementary Japanese II

Unit(s): 5

Class Hours: 80 Lecture, 16 Laboratory 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. Sixteen additional hours in the Modern Language Lab required. (One hour per week for 16-week semester sessions and two hours per week for 8-week summer sessions.)

KINESIOLOGY ACTIVITIES (KNAC)

Kinesiology Activities 107 Badminton

(Formerly: E.S. Activities 107)

Unit(s): 0.5

Class Hours: 32 Laboratory total. Instruction in the fundamental skills and strategies of badminton. May be repeated.

Kinesiology Activities 107 Badminton

(Formerly: E.S. Activities 107)

Unit(s): 1

Class Hours: 48 Laboratory total. Instruction in the fundamental skills and strategies of badminton. May be repeated.

Kinesiology Activities 123 Personal Fitness Training (Formerly: E.S. Activities 123)

Unit(s): 1

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. May be repeated.

Kinesiology Activities 130

(Formerly: E.S. Activities 130)

Unit(s): 0.5

Class Hours: 32 Laboratory total.

Fundamentals of golf: grip, stance, swing, alignment and swing. Emphasis on the short game utilizing short irons and putters. May be repeated.

Kinesiology Activities 130

(Formerly: E.S. Activities 130)

Unit(s): 1

Class Hours: 48 Laboratory total.

Fundamentals of golf: grip, stance, swing, alignment and swing. Emphasis on the short game utilizing short irons and putters. May be repeated.

Kinesiology Activities 132 Golf-Playing Lesson (Formerly: E.S. Activities 132)

Unit(s): 0.5

Class Hours: 32 Laboratory total.

The class will focus on playing lessons and applying advanced golf techniques on a regulation golf course. May be repeated.

Kinesiology Activities 132 Golf-Playing Lesson (Formerly: E.S. Activities 132)

Unit(s): 1

Class Hours: 48 Laboratory total.

The class will focus on playing lessons and applying advanced golf techniques on a regulation golf course. May be repeated.

Kinesiology Activities 133 Off Season Swimming (Formerly: E.S. Activities 133)

Unit(s): 1

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 Activities 134 Golf-Playing Lesson - Off Season (Formerly: E.S. Activities 134)

Unit(s): 1

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 Activities 140 Karate (Formerly: E.S. Activities 140)

Unit(s): 1

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. May be repeated.

Kinesiology Activities 140 Karate

(Formerly: E.S. Activities 140)

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. May be repeated.

Kinesiology Activities 141 Women's Tennis Off-Season Activities (Formerly: E.S. Activities 141)

Unit(s): 1

Class Hours: 48 Laboratory total.

This course is designed to teach advanced tennis. Advanced instruction in the fundamental skills basic to successful collegiate competition. These skills include grip, body mechanics involved with forehand, backhand, volley, half-volley, lob, smash, and net play. Advanced tactical and mental awareness to perform better under pressure and tailor your style of play. Major emphasis will be placed on proper footwork and form. May be repeated.



Kinesiology Activities 150 Hatha Yoga

(Formerly: E.S. Activities 150)

Unit(s): 1

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. May be repeated.

Kinesiology Activities 150 Hatha Yoga

(Formerly: E.S. Activities 150)

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. May be repeated.

Kinesiology Activities 155 Self-Defense (Formerly: E.S. Activities 155)

Unit(s): 0.5

repeated.

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. May be

Kinesiology Activities 155 Self-Defense

(Formerly: E.S. Activities 155)

Unit(s): 1

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. May be
repeated.

Kinesiology Activities 160 Tennis

(Formerly: E.S. Activities 160)

Unit(s): 1

Class Hours: 48 Laboratory total.
Instruction and practice in the fundamental skills basic to the successful performance of tennis. These skills include grip and body mechanics involved with the forehand, backhand, serve, lob, smash, and net play. Etiquettes, court strategy, and rules will be covered in singles and doubles play. Tournament play will be introduced. May be repeated.

Kinesiology Activities 160 Tennis

(Formerly: E.S. Activities 160)

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. May be repeated.

Kinesiology Activities 169 Wrestling

(Formerly: E.S. Activities 169)

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 ethic of the activity. May be repeated.

Kinesiology Activities 169 Wrestling

(Formerly: E.S. Activities 169)

Unit(s): 1

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. May be repeated.

Kinesiology Activities 170 Yoga

(Formerly: E.S. Activities 170)

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. May be repeated.

Kinesiology Activities 170 Yoga

(Formerly: E.S. Activities 170)

Unit(s): 1

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. May be repeated.

Kinesiology Activities 171 Wrestling - Off Season (Formerly: E.S. Activities 171)

Unit(s): 1

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 Activities 180 Tai Chi

(Formerly: E.S. Activities 180)

Unit(s): 1

Class Hours: 48 Laboratory total.

This course is designed to give instruction in the ancient Chinese art of Tai Chi. Students will learn movement patterns designed to generate, circulate and harmonize internal energy flows for mental and physical health enhancement. May be repeated. Grade: Pass/No Pass Only.

Kinesiology Activities 180 Tai Chi

(Formerly: E.S. Activities 180)

Unit(s): 0.5 Class Hours: 32 Laboratory total.

This course is designed to give instruction in the ancient Chinese art of Tai Chi. Students will learn movement patterns designed to generate, circulate and harmonize internal energy flows for mental and physical health enhancement. May be repeated. Grade: Pass/No Pass Only.

Kinesiology Activities 183 Pom Squad

(Formerly: E.S. Activities 183)

Unit(s): 1

Class Hours: 48 Laboratory total.

Specialized course designed for Santa
Ana College Pom Squad. Practice, instruction and performance of song and cheer
leading routines. May be repeated.

Kinesiology Activities 183 Pom Squad

(Formerly: E.S. Activities 183)

Unit(s): 1

Class Hours: 48 Laboratory total.

Specialized course designed for Santa
Ana College Pom Squad. Practice, instruction and performance of song and cheer

leading routines. May be repeated.

Kinesiology Activities 184 Pom Performance Squad (Formerly E.S. Activities 184)

Unit(s): 1

Class Hours: 48 Laboratory total.

Specialized course designed for Santa Ana College Pom Squad. Practice, instruction and performance of Pom Squad techniques and dances at Santa Ana College Athletic events. May be repeated.



Kinesiology Activities 185 Aikido

(Formerly: E.S. Activities 185)

Unit(s): 0.5

Class Hours: 32 Laboratory total.

Aikido is a traditional Japanese martial art and effective means of self-defense. It is a non-aggressive, non-competitive martial art that offers superior physical conditioning, coordination, focus, and balance. The class is a survey of traditional Aikido mental, physical and ethical training. Students will examine the concepts of environmental awarness, personal responsibility, etiquette, and ethical use of force. May be repeated.

Kinesiology Activities 185 Aikido

(Formerly: E.S. Activities 185)

Unit(s): 1

Class Hours: 48 Laboratory total.

Aikido is a traditional Japanese martial art and effective means of self-defense. It is a non-aggressive, non-competitive martial art that offers superior physical conditioning, coordination, focus, and balance. The class is a survey of traditional Aikido mental, physical and ethical training. Students will examine the concepts of environmental awarness, personal responsibility, etiquette, and ethical use of force. May be repeated.

Kinesiology Activities 200 Intramural Sports-Basketball (Formerly: E.S. Activities 200)

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. May be repeated. Grade: Pass/No Pass Only.

Kinesiology Activities 200 Intramural Sports-Basketball (Formerly: E.S. Activities 200)

Unit(s): 1

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 202 Basketball Off Season (Formerly: E.S. Activities 202)

Unit(s): 1

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 Activities 210 Baseball

(Formerly: E.S. Activities 210)

Unit(s): 1

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 Activities 211 Baseball - Off Season (Formerly: E.S. Activities 211)

Unit(s): 1

Class Hours: 48 Laboratory total.

Advanced fundamentals of fielding, throwing and hitting. Includes play situations with an emphasis on team offensive and defensive strategy. May be repeated.

Kinesiology Activities 220 Basketball

(Formerly: E.S. Activities 220)

Unit(s): 1

Class Hours: 48 Laboratory total. Instruction and practice in the fundamentals, rules, strategies, philosophies and theories of individual and team basketball.

May be repeated.

Kinesiology Activities 220 Basketball

(Formerly: E.S. Activities 220)

Unit(s): 0.5

Class Hours: 32 Laboratory total. Instruction and practice in the fundamentals, rules, strategies, philosophies and theories of individual and team basketball.

May be repeated.

Kinesiology Activities 226 Water Polo

(Formerly: E.S. Activities 226)

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

(Formerly: E.S. Activities 226)

Unit(s): 1

Class Hours: 48 Laboratory total. Instruction and experience in the fundamentals and strategies of water polo. May be repeated.

Kinesiology Activities 227 Off Season Water Polo (Formerly: E.S. Activities 227)

Class Hours: 48 Laboratory total. Instruction and experience in the fundamentals and strategies of the sport of water polo. May be repeated.

Kinesiology Activities 231 Football Fall Camp (Formerly: E.S. Activities 231)

Unit(s): 1

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 Activities 232 Football

(Formerly: E.S. Activities 232)

Unit(s): 1

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

Kinesiology Activities 235 Speed and Agility (Formerly: E.S. Activities 235)

be repeated.

Unit(s): 1

Class Hours: 48 Laboratory total.

This class includes instruction on linear speed, non-linear speed, and jumping ability using state of the art plyometric training and speed specific training tools. May be repeated.

Kinesiology Activities 235 Speed and Agility (Formerly: E.S. Activities 235)

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. May be repeated.

Kinesiology Activities 236 Advanced Baseball Game Skills (Formerly: ES Activities 236)

Unit(s): 1

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. May be repeated.

Kinesiology Activities 240 Advanced Basketball Skills-Men

Unit(s): 1

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 Activities 245 Advanced Basketball Skills-Women (Formerly: E.S. Activities 245)

Unit(s): 1

Class Hours: 48 Laboratory total.

This course is intended primarily to provide advanced training for students prior to participation on one of the intercollegiate basketball teams; however, the course is open to all students possessing advanced basketball abilities. May be repeated.

Kinesiology Activities 260 Soccer

(Formerly: E.S. Activities 260)

Unit(s): 1

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. May be repeated.

Kinesiology Activities 260 Soccer

(Formerly: E.S. Activities 260)

Unit(s): 0.5

Class Hours: 32 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. May be repeated.

Kinesiology Activities 261 Soccer-Women (Formerly: E.S. Activities 261)

Unit(s): 1

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 Activities 261 Soccer-Women (Formerly: E.S. Activities 261)

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 Activities 262 Soccer-Men

(Formerly: E.S. Activities 262)

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 Activities 262 Soccer-Men

(Formerly: E.S. Activities 262)

Unit(s): 1

Class Hours: 48 Laboratory total.

A high-level, competitive, conditioning and skills program in soccer for male athletes with exceptional talent. May be repeated.

Kinesiology Activities 265 Indoor Soccer

(Formerly: E.S. Activities 265)

Unit(s): 0.5

Class Hours: 32 Laboratory total.

Fast moving, action filled soccer played in a smaller indoor area. Emphasis is placed on techniques and tactics needed to best perform in the sport of soccer. May be repeated.

Kinesiology Activities 265 Indoor Soccer

(Formerly: E.S. Activities 265)

Unit(s): 1

Class Hours: 48 Laboratory total.

Fast moving, action filled soccer played in a smaller indoor area. Emphasis is placed on techniques and tactics needed to best perform in the sport of soccer. May be repeated.

Kinesiology Activities 270 Softball

(Formerly: E.S. Activities 270)

Unit(s): 1

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 Activities 270 Softball

(Formerly: E.S. Activities 270)

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 Activities 271 Softball - Off Season (Formerly: E.S. Activities 271)

Unit(s):

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 Activities 280 Track and Field

(Formerly: E.S. Activities 280)

Unit(s): 0.5

Class Hours: 32 Laboratory total. Instruction for individual practice in the various events of track and field.

May be repeated.

Kinesiology Activities 280 Track and Field (Formerly: E.S. Activities 280)

Unit(s): 1

Class Hours: 48 Laboratory total.
Instruction for individual practice in the various events of track and field. May be repeated.

Kinesiology Activities 281 Track and Field - Off Season (Formerly: E.S. Activities 281)

Unit(s): 1

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 Activities 290 Volleyball

(Formerly: E.S. Activities 290)

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. May be repeated.

Kinesiology Activities 290 Volleyball

(Formerly: E.S. Activities 290)

Unit(s):

Class Hours: 48 Laboratory total.

Instruction and practice in fundamental skills techniques, strategies, basic rules, team offense and defense, and team concepts of Volleyball. May be repeated. May be repeated.

Kinesiology Activities 291 Volleyball - Off Season (Formerly: E.S. Activities 219)

Unit(s): 1

Class Hours: 48 Laboratory total.

A high-level, competitive conditioning and skills program in volleyball for students with exceptional talent. May be repeated.

Kinesiology Activities 292 Advanced Volleyball-Women (Formerly: E.S. Activities 292)

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. May be repeated.



Kinesiology Activities 292 Advanced Volleyball-Women (Formerly: E.S. Activities 292)

Unit(s): 1

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. May be repeated.

Kinesiology Activities N70 Basic Activities (Formerly: E.S. Activities N70)

Unit(s): 1

Class Hours: 48 Laboratory total.

Instruction and practice in the fundamentals and strategies of both traditional and non-traditional physical activities. May be repeated.

KINESIOLOGY ADAPTED ACTIVITIES (KNAD)

Kinesiology Adapted Activities 201 Adapted Swimming

(Formerly: E.S. Adapted Activities 201)

Unit(s): 0.5

Class Hours: 32 Laboratory total. Prerequisite: Adapted Kinesiology Medical Release Form required.

Emphasis will be on individually structured aquatic programs for students with disabilities. May be repeated. Grade: Pass/ No Pass Only.

Kinesiology Adapted Activities 202 Adapted Circuit Training (Formerly: E.S. Adapted Activities 202)

Unit(s): 0.5

Class Hours: 32 Laboratory total. Prerequisite: Adapted Kinesiology Medical Release Form required.

The class is an individually structured circuit training program for students with disabilities. May be repeated. Grade: Pass/No Pass Only.

Kinesiology Adapted Activities 202 Adapted Circuit Training (Formerly: E.S. Adapted Activities 202)

Unit(s): 1

Class Hours: 48 Laboratory total. Prerequisite: Adapted Kinesiology Medical Release Form required.

The class is an individually structured circuit training program for students with disabilities. May be repeated.

Kinesiology Adapted Activities 205 Adapted Badminton

(Formerly: E.S. Adapted Activities 205)

Unit(s): 0.5

Class Hours: 32 Laboratory total.

Prerequisite: Adapted Kinesiology Medical

Release Form required.

Fundamentals of badminton play, teamwork, rules and court strategy, are presented to meet the individual needs of students with disabilities. May be repeated. Grade: Pass/No Pass Only.

Kinesiology Adapted Activities 206 Adapted Tennis

(Formerly: E.S. Adapted Activities 206)

Unit(s): 0.5

Class Hours: 32 Laboratory total.

Prerequisite: Adapted Kinesiology Medical

Release Form required.

Instruction and practice in the fundamental skills of tennis to meet the individual needs of students with disabilities. May be repeated. Grade: Pass/No Pass Only.

Kinesiology Adapted Activities 208 Adapted Aerobics Fitness (Formerly: E.S. Adapted Activities 208)

Unit(s): 0.5

Class Hours: 32 Laboratory total. Prerequisite: Adapted Kinesiology Medical Release Form required.

Various aerobic and stretching exercises set to music and performed to tone the body, improve cardiovascular endurance, and increase one's ability to exercise safely and effectively. May be repeated.

Kinesiology Adapted Activities 208 Adapted Aerobics Fitness (Formerly: E.S. Adapted Activities 208)

Unit(s): 1

Class Hours: 48 Laboratory total.

Prerequisite: Adapted Kinesiology Medical

Release Form required.

Various aerobic and stretching exercises set to music and performed to tone the body, improve cardiovascular endurance, and increase one's ability to exercise safely and effectively. May be repeated.

Kinesiology Adapted Activities 211 Adapted Aquatics

(Formerly: E.S. Adapted Activities 211)

Unit(s): 1

Class Hours: 48 Laboratory total. Prerequisite: Adapted Kinesiology Medical Release Form required.

An exercise class in the water for students with disabilities. The program will be geared toward improving cardiovascular endurance, increasing flexibility and toning muscles. No swimming skills required. May be repeated.

Kinesiology Adapted Activities 211 Adapted Aquatics

(Formerly: E.S. Adapted Activities 211)

Unit(s): 0.5

Class Hours: 32 Laboratory total.

Prerequisite: Adapted Kinesiology Medical

Release Form required.

An exercise class in the water. The program will be geared to improving cardiovascular endurance, increase flexibility and toning muscles. No swimming skills required. May be repeated. Grade: Pass/ No Pass Only.

Kinesiology Adapted Activities 220 Adapted Tai Chi

(Formerly: E.S. Adapted Activities 220)

Unit(s): 0.5

Class Hours: 32 Laboratory total.

Prerequisite: Adapted Kinesiology Medical

Release Form required.

Exercise designed for the physically disabled and set to music either in a standing or seated position to improve breathing, balance and muscle tone. May be repeated. Grade: Pass/No Pass Only.

Kinesiology Adapted Activities N15 Adapted Senior Fitness (Formerly: E.S. Adapted Activities N15)

Unit(s): 0.5

Class Hours: 32 Laboratory total.

Prerequisite: Adapted Kinesiology Medical Release Form required.

A conditioning program designed for senior citizens based on sound principles of aerobic training, flexibility and muscle

endurance for seniors. May be repeated. Grade: Pass/No Pass Only.

KINESIOLOGY AEROBIC FITNESS (KNAF)

Kinesiology Aerobic Fitness 140 Walking/Jogging for Fitness (Formerly: E.S. Aerobic Fitness 140)

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. May be repeated.



Kinesiology Aerobic Fitness 140 Walking/Jogging for Fitness (Formerly: E.S. Aerobic Fitness 140)

Unit(s): 1

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. May be repeated.

Kinesiology Aerobic Fitness 143 Extreme Fitness (Formerly: E.S. Aerobic Fitness 143)

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). May be repeated.

Kinesiology Aerobic Fitness 143 Extreme Fitness (Formerly: E.S. Aerobic Fitness 143)

Unit(s): 1

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). May be repeated.

Kinesiology Aerobic Fitness 144 Cross Training (Formerly: E.S. Aerobic Fitness 144)

Unit(s): 1

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. May be repeated.

Kinesiology Aerobic Fitness 144 Cross Training

(Formerly: E.S. Aerobic Fitness 144)

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. May be repeated.

Kinesiology Aerobic Fitness 146 Stability Ball Training for Fitness (Formerly E.S. Aerobic Fitness 146)

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. May be repeated.

Kinesiology Aerobic Fitness 146 Stability Ball Training for Fitness (Formerly E.S. Aerobic Fitness 146)

Unit(s): 1

Class Hours: 48 Laboratory total.

A core training and strengthening workout. A full body workout using stability balls, designed to obtain total toning and strength. May be repeated.

Kinesiology Aerobic Fitness 150 Stretch. Flex and Tone (Formerly: E.S. Aerobic Fitness 150)

Unit(s): 0.5

Class Hours: 32 Laboratory total.

A combination of stretching and toning exercises to increase strength, flexibility, and overall body fitness. May be repeated.

Kinesiology Aerobic Fitness 150 Stretch, Flex and Tone (Formerly: E.S. Aerobic Fitness 150)

Unit(s): 1

Class Hours: 48 Laboratory total.

A combination of stretching and toning exercises to increase strength, flexibility, and overall body fitness. May be repeated.

Kinesiology Aerobic Fitness 155 Aerobics

(Formerly: E.S. Aerobic Fitness 155)

Unit(s): 1

Class Hours: 48 Laboratory total.

Aerobic exercises, strength routines and stretching activities set to music designed to improve cardiovascular endurance and enhance muscular strength and flexibility. May be repeated.

Kinesiology Aerobic Fitness 155 Aerobics

(Formerly: E.S. Aerobic Fitness 155)

Unit(s): 0.5

Class Hours: 32 Laboratory total.

Aerobic exercises, strength routines and stretching activities set to music designed to improve cardiovascular endurance and enhance muscular strength and flexibility. May be repeated.

Kinesiology Aerobic Fitness 156 Cardio Boxing

(Formerly: E.S. Aerobic Fitness 156)

Unit(s): 1

Class Hours: 48 Laboratory total.

A series of boxing, kickboxing, stretching exercises arranged to music, gradually increasing in tempo with a greater emphasis on a non-stop 25-30 minute program with 10-15 minutes of abdominal work and stretching. Aerobic activity is designed to improve muscle tone and cardiovascular endurance. May be repeated.

Kinesiology Aerobic Fitness 156 Cardio Boxing

(Formerly: E.S. Aerobic Fitness 156)

Unit(s): 0.5

Class Hours: 32 Laboratory total.

A series of boxing, kickboxing, stretching exercises arranged to music, gradually increasing in tempo with a greater emphasis on a non-stop 25-30 minute program with 10-15 minutes of abdominal work and stretching. Aerobic activity is designed to improve muscle tone and cardiovascular endurance. May be repeated.

Kinesiology Aerobic Fitness 157 Cardio Pump

(Formerly: E.S. Aerobic Fitness 157)

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. May be repeated.

Kinesiology Aerobic Fitness 157 Cardio Pump (Formerly: E.S. Aerobic Fitness 157)

Unit(s): 1

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. May be repeated.

Kinesiology Aerobic Fitness 158 Step Aerobics

(Formerly: E.S. Aerobic Fitness 158)

Unit(s): 0.5

Class Hours: 32 Laboratory total.

An aerobic exercise program that improves flexibility, aerobic conditioning, muscular strength and endurance by utilizing a platform for stepping up and down. Includes a variety of stepping routines and upper body strength training exercises in controlled rhythmic patterns set to music. A complete high intensity low-impact balanced aerobic activity suited to accommodate students in all fitness levels. May be repeated.

Kinesiology Aerobic Fitness 158 Step Aerobics (Formerly: E.S. Aerobic Fitness 158)

Unit(s): 1

Class Hours: 48 Laboratory total.

An aerobic exercise program that improves flexibility, aerobic conditioning, muscular strength and endurance by utilizing a platform for stepping up and down. Includes a variety of stepping routines and upper body strength training exercises in controlled rhythmic patterns set to music. A complete high intensity low-impact balanced aerobic activity suited to accommodate students in all fitness levels. May be repeated.



Kinesiology Aerobic Fitness 160 Aqua Aerobics

(Formerly: E.S. Aerobic Fitness 160)

Unit(s): 0.5

Class Hours: 32 Laboratory total.

An aerobic exercise class in the water. The program will be geared to developing cardiovascular endurance, increasing flexibility and toning of the muscles. No swimming skills required. May be repeated.

Kinesiology Aerobic Fitness 160 Aqua Aerobics

(Formerly: E.S. Aerobic Fitness 160)

Unit(s): 1

Class Hours: 48 Laboratory total.

An aerobic exercise class in the water. The program will be geared to developing cardiovascular endurance, increasing flexibility and toning of the muscles. No swimming skills required. May be repeated.

KINESIOLOGY AQUATICS (KNAQ)

Kinesiology Aquatics 201 Swimming

(Formerly: E.S Aquatics 201)

Unit(s): 1

Class Hours: 48 Laboratory total. Instruction and experience in the basic stroke techniques and safety procedures of swimming. May be repeated.

Kinesiology Aquatics 201 Swimming

(Formerly: E.S. Aquatics 201)

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 204 Lifesaving

(Formerly: E.S. Aquatics 204)

Unit(s): 1.5

Class Hours: 16 Lecture, 32 Laboratory total. Prerequisite: K.N. Aquatics 201.

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. May be repeated.

Kinesiology Aquatics 206 Lap Swimming

(Formerly: E.S. Aquatics 206)

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. May be repeated. Grade: Pass/No Pass Only.

Kinesiology Aquatics 206 Lap Swimming

(Formerly: E.S. Aquatics 206)

Unit(s): 1

Class Hours: 48 Laboratory total.

Prerequisite: Student must demostrate swim-

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 (Formerly: E.S. Fitness 100)

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. May be repeated. Grade: Pass/No Pass Only.

Kinesiology Fitness 101 Personal Fitness Evaluation (Formerly: E.S. Fitness 101)

Unit(s): 1

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. May be repeated. Grade: Pass/No Pass Only.

Kinesiology Fitness 102 Personal Fitness Evaluation (Formerly: E.S. Fitness 102)

Unit(s): 2

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. May be repeated. Grade: Pass/No Pass Only.

Kinesiology Fitness 103 Performance Evaluation for Athletes (Formerly: E.S. Fitness 103)

Unit(s): 1

Class Hours: 12 Lecture, 36 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 Fitness 108 Summer Circuit Training (Formerly: E.S. Fitness 108)

Unit(s): 0.5

Class Hours: 32 Laboratory total.

An individualized program for achieving muscle tone while increasing strength and endurance. Emphasis is on warm weather exercise and its effects on the individual. Consists of resistance exercises. Summer session only. May be repeated. Grade: Pass/No Pass Only.

Kinesiology Fitness 109 Circuit Training (Formerly: E.S. Fitness 109)

Unit(s): 0.5

Class Hours: 32 Laboratory total.

An individualized program developed to promote lifetime fitness. Employs resistive designed exercise devices for achieving muscle tone while increasing strength and cardiovascular endurance. May be repeated. Grade: Pass/No Pass Only.

Kinesiology Fitness 110 Circuit Training (Formerly: E.S. Fitness 110)

Unit(s): 1

Class Hours: 48 Laboratory total. An individualized fitness program developed to promote lifetime fitness. Employs resistive designed exercise devices for achieving muscle tone while increasing strength and endurance. May be repeated. Grade: Pass/No Pass Only.

Kinesiology Fitness 115 Cardiovascular Conditioning (Formerly: E.S. Fitness 115)

Unit(s): 1

Class Hours: 48 Laboratory total.

Designed for those people who desire a cardiovascular workout using a combination of equipment such as stationary bikes, ellipticals, steppers and rowing machines. Suited for men and women of all age groups interested in maximal cardiovascular fitness. May be repeated. Grade: Pass/No Pass Only.



Kinesiology Fitness 116 Summer Circuit Training for Summer Fitness (Formerly: E.S. Fitness 116)

Unit(s): 1

Class Hours: 48 Laboratory total. Individualized program for achieving muscle tone while increasing strength and endurance. Emphasis is on warm weather exercise and its effects on the individual. Consists of resistance exercises. Summer Only. May be repeated. Grade: Pass/No Pass Only.

Kinesiology Fitness 119 Strength Lab (Formerly: E.S. Fitness 119)

Unit(s): 0.5

Class Hours: 32 Laboratory total. Instruction in free weight techniques, using barbells and dumbbells. For those with experience in weight training. Open laboratory. May be repeated. Grade: Pass/ No Pass Only.

Kinesiology Fitness 120 Strength Lab (Formerly: E.S. Fitness 120)

Unit(s): 1

Class Hours: 48 Laboratory total. Instruction in free weight techniques, using barbells and dumbbells. For those with experience in weight training. Open laboratory. May be repeated. Grade: Pass/ No Pass Only.

Kinesiology Fitness 124 Conditioning for Athletes-Men (Formerly: E.S. Fitness 124)

Unit(s): 0.5

Class Hours: 32 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 Fitness 124 Conditioning for Athletes-Men (Formerly: E.S. Fitness 124)

Unit(s): 1

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 Fitness 125 Conditioning for Football, Defense (Formerly: E.S. Fitness 125)

Unit(s): 1

Class Hours: 48 Laboratory total.

This class is designed to prepare the college football athlete to play defense and to play on special teams. This class includes resistance training and field work. May be repeated.

Kinesiology Fitness 126 Upper Body Development for Athletes (Formerly: E.S. Fitness 126)

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. May be repeated.

Kinesiology Fitness 127 Lower Body Development for Athletes (Formerly: E.S. Fitness 127)

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 lower body. Targeted muscle groups are the gluteus, quadriceps, hamstrings and calf. May be repeated.

Kinesiology Fitness 128 Conditioning for Athletes-Women (Formerly: E.S. Fitness 128)

Unit(s): 0.5

Class Hours: 32 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 Fitness 128 Conditioning for Athletes-Women (Formerly: E.S. Fitness 128)

Unit(s): 1

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 Fitness 145 Weight Training for Women (Formerly: E.S. Fitness 145)

Unit(s): 1

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 147 Weight Training Co-Ed (Formerly: E.S. Fitness 147)

Unit(s): 1

Class Hours: 48 Laboratory total.

Introductory instruction and practice in large muscle area development utilizing free weight. Development will be in muscle size or tone and strength or endurance. May be repeated.

KINESIOLOGY HEALTH EDUCATION (KNHE)

Kinesiology Health Education 101 Healthful Living

(Formerly: E.S. Health Education 101)

Unit(s): 3

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 (Formerly: E.S. Health Education 102)

Unit(s): 3

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** (Formerly: E.S. Health Education 104)

Unit(s): 2

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 First Aid and Personal Safety (Formerly: E.S. Health Education 105)

Unit(s): 1.5

Class Hours: 24 Lecture total.

Instruction in accident prevention and immediate care to accident victims. Certificate available upon completion. Prepares student for E.S. Health Education 106. May be repeated.

Kinesiology Health Education 107 Cardiopulmonary Resuscitation (Formerly E.S. Health Education 107) Unit(s): 2

Class Hours: 32 Lecture total.

Instruction in artificial respiration and manual artificial circulation that is recommended for use in cardiac arrest cases. Instruction in the Automatic External Defibrillator (AED) will also be included. Successful completion may lead to American Heart Association Certificate and/or American Red Cross Certificate. May be repeated for recertification. May be repeated.



Kinesiology Health Education 120 Health Issues for Children (Formerly: E.S. Health Education 120)

Unit(s): 3

Class Hours: 48 Lecture total.

Health issues and causes of diseases and health problems common among children and youth are discussed. Emphasis on the prevention of disease and learning basic health concepts and practices. May be repeated.

KINESIOLOGY INTERCOLLEGIATE ATHLETICS (KNIA)

Kinesiology Intercollegiate Athletics 201 **Baseball Men**

(Formerly: E.S. Intercollegiate Athletics 201)

Unit(s): 3

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

(Formerly: E.S. Intercollegiate Athletics 202)

Unit(s): 3

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 203 Cross Country-Men

(Formerly: E.S. Intercollegiate Athletics 203) Unit(s): 3

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 204 Football-Men

(Formerly: E.S. Intercollegiate Athletics 204) Unit(s): 3

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 205 Golf-Men

(Formerly: E.S. Intercollegiate Athletics 205)

Unit(s): 3

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 206 Swimming-Men

(Formerly: E.S. Intercollegiate Athletics 206)

Unit(s): 3

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 208 Track and Field-Men

(Formerly: E.S. Intercollegiate Athletics 208)

Unit(s): 3

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 209 Water Polo - Men

(Formerly: E.S. Intercollegiate Athletics 209) Unit(s): 3

Class Hours: 162 Laboratory total.

A high-level, competitive program for 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 210 Wrestling-Men

(Formerly: E.S. Intercollegiate Athletics 210)

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

(Formerly: E.S. Intercollegiate Athletics 211)

Unit(s): 3

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

(Formerly: E.S. Intercollegiate Athletics 212)

Unit(s): 3

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

(Formerly: E.S. Intercollegiate Athletics 213)

Unit(s): 3

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**

(Formerly: E.S. Intercollegiate Athletics 214)

Unit(s): 3

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 215 Tennis-Women

(Formerly: E.S. Intercollegiate Athletics 215)

Unit(s): 3

Class Hours: 162 Laboratory total.

A high level competitive program for women students with exceptional tennis talent. This program provides competition with conference colleges as well as with other California community colleges. May be repeated.



Kinesiology Intercollegiate Athletics 216 Soccer-Men

(Formerly: E.S. Intercollegiate Athletics 216)

Unit(s): 3

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 competi-

Kinesiology Intercollegiate Athletics 217 Swimming-Women

tion. May be repeated.

(Formerly: E.S. Intercollegiate Athletics 217)

Unit(s): 3

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

(Formerly: E.S. Intercollegiate Athletics 218)

Unit(s): 3

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 (Formerly: E.S. Intercollegiate Athletics 219)

Unit(s): 3

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

(Formerly: E.S. Intercollegiate Athletics 220)

Unit(s): 3

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

(Formerly: E.S. Intercollegiate Athletics 221)

Unit(s): 3

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 222 Badminton-Women

(Formerly: E.S. Intercollegiate Athletics 222)

Unit(s): 3

Class Hours: 162 Laboratory total.

A high-level, competitive program for women students with exceptional badminton talent. The program provides competition with conference colleges as well as with other California Community Colleges. May be repeated.

KINESIOLOGY PROFESSIONAL (KNPR)

Kinesiology Professional 101 Introduction to Kinesiology

Unit(s): 3

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 121 Sports Officiating-Fall Sports (Formerly: E.S. Professional 121)

Unit(s): 2

Class Hours: 24 Lecture, 24 Laboratory total. The physical and psychological aspects of sports officiating with emphasis on but not limited to football, volleyball, and basketball, including the study of interrelationships between officials, coaches, players and spectators. May be repeated.

Kinesiology Professional 122 Sports Officiating-Spring and Summer Sports (Formerly: E.S. Professional 122)

Jnit(s): 2

Class Hours: 24 Lecture, 24 Laboratory total. The physical and psychological aspects of sports officiating to for baseball, soccer, softball, and basketball, including the study of interrelationships between officials, coaches, players and spectators. May be repeated.

Kinesiology Professional 123 Officiating Football-Rule and Mechanics (Formerly: E.S. Professional 123)

Unit(s): 2

Class Hours: 16 Lecture, 48 Laboratory total. Learn to apply the playing rules and the on field mechanics of signals and positioning for the game of football. May be repeated.

Kinesiology Professional 125 Sport Psychology (Formerly: E.S. Professional 125)

Unit(s): 3

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 130 Golf Course Management (Formerly: E.S. Professional 130)

Unit(s): 2

Class Hours: 32 Lecture, 16 Laboratory total. Designed for the physical education major and/or advanced golfer. Students will learn through the use of instructional tapes, lectures and demonstrations. Being exposed to the techniques of the full swing, putting, chipping and sand play. May be repeated.

Kinesiology Professional 140 Movement Education for Elementary School Children

(Formerly: E.S. Professional 140)

Unit(s): 3

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 (Formerly: E.S. Professional 150)

Unit(s): 3

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 (Formerly: E.S. Professional 155)

. Unit(s): 2

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. May be repeated.

Kinesiology Professional 160 Management of Physical Education and Sport (Formerly: E.S. Professional 160)

Unit(s): 3

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 (Formerly: E.S. Professional 165)

Unit(s): 2

Class Hours: 32 Lecture total.

A general overview of rules, regulations, strategies, mental preparation, skill evaluation, and the history of the sport of softball. Includes strategies and winning techniques of the game. May be repeated.

Kinesiology Professional 170 Sport Ethics

(Formerly: E.S. Professional 170)

Unit(s): 3

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 (Formerly: E.S. Professional 175)

Unit(s): 2

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. May be repeated.

Kinesiology Professional 180 Theory of Track and Field (Formerly: E.S. Professional 180)

Unit(s): 2

Class Hours: 32 Lecture total.

Designed for the competitive track and field athlete. Students will be introduced to the strategies and tactics of competition in track and field events. Psychological considerations, biomechanics, and a historical perspective of each event will be addressed. May be repeated.

Kinesiology Professional 198 Topics

(Formerly: E.S. Professional 198)

Unit(s): 0.5 - 5

Class Hours: 8 Lecture, 8 Laboratory total. Specialized courses on topics related to the needs of students of exercise science. May be repeated.

Kinesiology Professional 200 Theory of Baseball (Formerly: E.S. Professional 200)

Unit(s): 2

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. May be repeated.

KINESIOLOGY SPORTS MEDICINE (KNSM)

Kinesiology Sports Medicine 101 Introduction to Sports Medicine (Formerly: E.S. Sports Medicine 101)

Unit(s): 3

Class Hours: 48 Lecture total.

Prerequisite: Concurrent enrollment in K.N.

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 (Formerly: E.S. Sports Medicine 150)

Unit(s): 2

Class Hours: 96 Laboratory total. Prerequisite: Concurrently in K.N. 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.

Kinesiology Sports Medicine 198 Topics

(Formerly: E.S. Sports Medicine 198)

Unit(s): 0.5 - 5

Class Hours: 80 Lecture total.

Specialized courses on topics related to the special needs of students as related to Kinesiology. May be repeated.

LIBRARY & INFORMATION STUDIES (LIBI)

Library & Information Studies 100 Library Research Fundamentals

Unit(s): 1

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

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

LIBRARY TECHNOLOGY (LIBR)

Library Technology 053 Library Internship

Unit(s): 3

Class Hours: 48 Lecture total.

Prerequisite: Library Technology 101, 110,

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

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

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

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

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

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 040 Professional Development - Exploring Leadership

Unit(s): 1

Class Hours: 16 Lecture total.

The purpose of this course is to expose the students to successful leaders and encourage their own leadership potential. Through interaction with top business and community leaders, the student will learn successful leadership strategies, the elements involved in a successful career, and the difference in leadership techniques. Grade: Pass/No Pass Only.

Management 041 Professional Development - The Business Of Show Business

Unit(s): 1

Class Hours: 16 Lecture total.

The course purpose is to expose the students to successful leadership strategies in various lines of business. Through interaction with top business leaders, the students will learn the complexity and diversity of each line of business and understand the elements involved in creating a successful career path. Grade: Pass/No Pass Only.

Management 105 Cooperative Work Experience EducationOccupational

Unit(s): 1 - 4

Class Hours: Arranged.

Supervised paid or volunteer experience in student's major including new or expanded responsibilities. One unit 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 Management 105. Grade: Pass/No Pass Only.

Management 120 Principles of Management

Unit(s): 3

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

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

Class Hours: 48 Lecture total.

Overview of oral and written communication skills used in business; emphasizes guidelines for improving writing and speaking skills, common solutions to common communication problems, ethical issues facing business communicators today, instructions on how to identify areas of legal vulnerability, and tested techniques for communicating successfully in today's high-tech, international business environment. Suggested preparation: English 061 or English for Multi-lingual Students 112 or American College English 116.

Management 125 Organizational Leadership

Unit(s): 3

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

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 Blueprint Reading

Unit(s): 2

Class Hours: 32 Lecture total.

Reading and interpreting blueprints for manufacturing. (Same as Engineering 011.)

Manufacturing Technology 028 Basic Metals Technology

Unit(s): 3

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

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

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

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

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

Class Hours: 24-432 Laboratory total. Prerequisite: Manufacturing Technology 059 and 068.

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 CNC Program Writing

Unit(s): 4

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

Class Hours: 48 Lecture, 32 Laboratory 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. May be repeated.

Manufacturing Technology 074 CNC Milling Center Set Up and Operation

Unit(s): 3

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. May be repeated.

Manufacturing Technology 075 Mastercam - 3D Geometry, 3D Surfaces

Class Hours: 48 Lecture, 32 Laboratory total. 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. May be repeated.

Manufacturing Technology 076 CNC Turning Center Set Up and Operation

Unit(s): 3

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. May be repeated.

Manufacturing Technology 077 Mastercam - 3D Toolpath and CAM **Applications**

Unit(s): 3

Class Hours: 48 Lecture, 32 Laboratory total. Prerequisite: Manufacturing Technology 074 with a minimum grade of C and Manufacturing Technology 075 with a minimum grade of C.

Advanced concepts in the manufacturing of machine parts using MASTERCAM software and CNC machining centers. Emphasis placed on programming and machining 3 dimensional surfaces. Problem solving in roughing, finishing, fixturing, and machining of a variety of part configurations.

Manufacturing Technology 078 Mastercam Lathe

Unit(s): 3

Class Hours: 48 Lecture, 32 Laboratory total. Prerequisite: Manufacturing Technology 071, 073, and 076.

Computer assisted numerical control programming of machine tools using MASTERCAM lathe software. Emphasis placed on lathe toolpaths: facing, turning, grooving, boring, and threading. May be repeated.

Manufacturing Technology 084 Advanced CNC Mill Set Up and Operation

Unit(s): 3

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. May be repeated.

Manufacturing Technology 086 Advanced CNC Lathe Programming, Setup And Operation

Unit(s): 3

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. May be repeated.

Manufacturing Technology 094 CNC Horizontal Mill Setup and Operation

Unit(s): 3

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. May be repeated.

Manufacturing Technology 103 Solidworks Basic Solid Modeling

Unit(s): 3

Class Hours: 48 Lecture, 32 Laboratory total. Introductory course in parametric solid modeling. This course will include a solid modeling overview, solid model construction techniques (extrude, revolve, sweep, primitive, fillet, chamfer, etc), including the preparation of individual solid components and basic solid model assemblies. (Same as Engineering 103.). May be repeated.



Manufacturing Technology 104 Solidworks Intermediate Solid Modeling

Unit(s): 3

Class Hours: 48 Lecture, 32 Laboratory total. Prerequisite: Manufacturing Technology 083 or 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 Engineering 104.). May be repeated.

Manufacturing Technology 105 Solidworks Advanced Solid Modeling

Unit(s): 3

Class Hours: 48 Lecture, 32 Laboratory 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.). May be repeated.

Manufacturing Technology 106 Solidworks Drawings

Unit(s): 3

Class Hours: 48 Lecture, 32 Laboratory total. Prerequisite: Manufacturing Technology 103.

Creation and use of drawing templates, importing of solids data into the drawing template, and modification of the resulting drawings to company standards. May be repeated.

Manufacturing Technology 114 Geometric Dimensioning and Tolerancing Unit(s): 3

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.)

Manufacturing Technology 130A CATIA Solid Modeling I

Unit(s): 3

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.

Manufacturing Technology 130B CATIA Solid Modeling II

Unit(s): 3

Class Hours: 32 Lecture, 48 Laboratory total. Intermediate course in parametric solid modeling CAD using CATIA software. Topics: intermediate level sketching, modeling (ribs, slots, lofts), feature transformation, assemblies, drafting workbench, surface modeling, and other CATIA modules. Suggested Preparation: Manufacturing Technology 130A.

Manufacturing Technology 188 Machine Technology Survey

Unit(s): 3

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 105 Cooperative Work Experience Education-Occupational

Unit(s): 1 - 4

Class Hours: Arranged.

Supervised paid or volunteer experience in student's major, including new or expanded responsibilities. One unit 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. Student must be enrolled in a minimum of 7 units including 4 units for Marketing 105. Grade: Pass/No Pass Only.

Marketing 111 Principles of Retailing

Unit(s): 3

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 112 Principles of Advertising

Unit(s): 3

Class Hours: 48 Lecture total.

An analysis of the principles of advertising as a marketing tool. The use of persuasive techniques about products, services, or ideas. Understanding the use of various media to increase product use, to build brand preference and loyalty, and to communicate information about a product.

Marketing 113 Principles of Marketing

Unit(s): 3

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 114 Professional Selling

Unit(s): 3

Class Hours: 48 Lecture total.

Introductory course in sales covering sales presentations, communication styles, prospecting, closing, and evaluation of selling techniques and practices. Utilizes various methods to improve sales effectiveness. Covers objectives in selling from the perspective of the consumer, business, and society.

Marketing 115 Consumer Behavior

Unit(s): 3

Class Hours: 48 Lecture total.

The investigation and analysis of why consumers select, purchase, use, and dispose of goods and services to satisfy their personal and household needs.

Marketing 120 Understanding Consumer Behavior -Getting Them to Buy, Buy, Buy

Unit(s): 1

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

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

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

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

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

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

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

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)

See the Mathematics Course Sequences chart on page 179.

Mathematics N05A Basic Mathematics-A

Unit(s): 1

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.

Mathematics N05B Basic Mathematics-B

Unit(s): 1

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.

Mathematics N05C Basic Mathematics-C

Unit(s): 1

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.

Mathematics N06 Essential Mathematics

Unit(s): 3

Class Hours: 64 Lecture total.

Prerequisite: Must take 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

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

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.

Mathematics N47B Pre-Algebra/Algebra Essentials B

Unit(s): 2

Class Hours: 32 Lecture total.

Prerequisite: Mathematics N05 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. Math N47A is a prerequisite/corequisite.

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.

Mathematics N48 Pre-Algebra/Algebra Basics

Unit(s): 4

Class Hours: 64 Lecture total.

Prerequisite: Mathematics N05 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

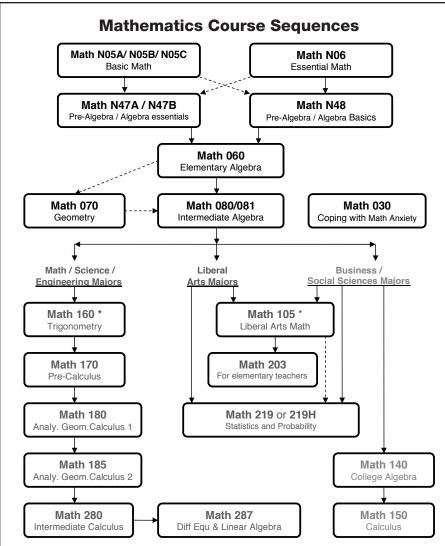
Unit(s): 4

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.





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 061 Elementary Algebra With Lab

Unit(s): 4

Class Hours: 64 Lecture, 16 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 070 Geometry

Unit(s): 3

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

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

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

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 College Algebra

Unit(s): 4

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; counting theory; probability.



Mathematics 145 Finite Mathematics

Unit(s): 4

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.

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 Calculus for Biological, Management and **Social Sciences**

Unit(s): 4

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 160 Trigonometry

Unit(s): 4

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

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

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 (C-ID MATH 900S) **Analytic Geometry and Calculus**

Unit(s): 4

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 180H

Honors Analytic Geometry and Calculus

Unit(s): 4

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 (C-ID MATH 900S) **Analytic Geometry and Calculus**

Unit(s): 4

Class Hours: 80 Lecture total.

Prerequisite: Mathematics 180 or 180H, 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 203 Fundamental Concepts of Elementary Mathematics

Unit(s): 4

Class Hours: 64 Lecture total.

Prerequisite: Mathematics 105 or 140 or 145 or 170 or 219 or 219H or Social Science 219 or 219H 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 Statistics and Probability

Unit(s): 4

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 Honors Statistics and Probability

Unit(s): 4

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 (C-ID MATH 230) **Intermediate Calculus**

Unit(s): 4

Class Hours: 64 Lecture total.

Prerequisite: Mathematics 185, second semester 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

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 - 4

Class Hours: Arranged.

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; 150-224 hours = 2 units; 225-299 hours = 3 units and 300-360 hours = 4 units. May be repeated. Grade: Pass/No Pass Only.

Medical Assistant 020 Bloodborne and Airborne Pathogen Standards

Unit(s): 0.5

Class Hours: 8 Lecture total.

Presentation of California Occupational Safety and Health Act (Cal-OSHA) Bloodborne and Airborne Pathogen Standards for occupational at-risk exposure to hepatitis, HIV-AIDS and Tuberculosis including compliance requirements, exposure control measures, exposure determination, protective equipment, and post exposure practices.

Medical Assistant 051A Beginning Medical Terminology

Unit(s): 3

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

Class Hours: 48 Lecture total.

Prerequisite: Medical Assistant 051A.

Continuation of MA 051A. Includes medical terms related to anatomy, physiology, diagnostic tests and pathology of the

nervous, cardiovascular, respiratory, circu-

latory, musculoskeletal, skin, sensory and the endocrine systems.

Medical Assistant 053 Medical Assistant - Administrative Front Office

Unit(s): 3

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, book-keeping, 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

Class Hours: 48 Lecture total.

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

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

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 009 Music Laboratory

Unit(s): 0.5

Class Hours: 24 Laboratory total. Prerequisite: Concurrent enrollment in a music

course.

Sign in/out supervised work on instrumental, vocal, music theory, or digital music assignments and projects. Completion of new assignments each semester.

Accumulation of 24 hours earns 0.5 unit.

Requires concurrent enrollment in a music course. May be repeated. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Music 101 Music Appreciation

Unit(s): 3

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

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

An enriched approach designed for honors students. The European classical music tradition through study of musical elements, stylistic features, culture and history. Readings, guided listening assignments, required concert attendance and special projects. Recommended for non-music majors.

Music 102 World Music

Unit(s): 3

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

Class Hours: 48 Lecture total.

Prerequisite: High School or college GPA of

3.0 or above.

An enriched, in-depth study of music from Asia, Africa, the Middle East, Europe and the Americas. Seminar-style critical investigation of the interconnections of style, culture, and aesthetics to promote enjoyment and understanding of world musics.

Music 103 Jazz in America

Unit(s): 3

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

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

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

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 Theory and Ear Training**

Unit(s): 4

Class Hours: 64 Lecture, 16 Laboratory total. Beginning level computer assisted course in music theory. Includes detailed study of rhythm, notation, scales, intervals, beginning harmony and musicianship skills. Ability to read music in at least one clef recommended. Required of music majors; open to non-majors.

Music 112 Theory 2

Unit(s): 4

Class Hours: 64 Lecture, 16 Laboratory total. Prerequisite: Music 111.

Continued study of harmony and ear training. Includes writing phrases and cadences, non-harmonic tones, harmonization, melodies, figured bass, chord progression and keyboard harmony. Computer assisted. Required for music majors; open to non-maiors.

Music 113A

Basic Musicianship Skills

Unit(s): 1

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

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

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

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)

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

Music 115B

Applied Music (Private Instruction)

Unit(s): 1

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 quitar 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

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. Must attend weekly recital and practice 5 hours per week in Music Building. 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

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

Class Hours: 16 Lecture, 16 Laboratory total. Group instruction for beginners emphasizing 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

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. Recommended for non music majors and for music majors not studying privately.

Music 123 **Advanced Voice**

Unit(s): 1

Class Hours: 16 Lecture, 16 Laboratory total. Prerequisite: Music 122.

Advanced principles of solo and choral vocal production. Includes vocal exercises and song literature in English and other languages. Practice outside of class required. Recommended for non music majors and for music majors not studying privately.

Music 124 **Advanced Vocal Production and** Repertoire

Unit(s): 1

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 in a variety of 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

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

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 explored. Songs presented in class. Students are encouraged to concurrently enroll in Music 109 or 111.

Music 132

The Jazz Singers

Unit(s): 1

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

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

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

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

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

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. May be repeated.

Music 141 **Instrumental Ensembles**

Unit(s): 1

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

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

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**

Class Hours: 16 Lecture, 32 Laboratory total.

Prerequisite: Music 143 or 147.

Exploration of digital recording and MIDIconcepts 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. May be repeated.

Music 145

Jazz Improvisation and Performance Workshop

Unit(s): 1

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

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. May be repeated.



Music 147

Digital Recording Studio Techniques II

Unit(s): 2

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. May be repeated.

Music 148

Digital Music Synchronization to Multimedia

Unit(s): 2

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. May be repeated.

Music 149

The Business of Music

Unit(s): 2

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

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. May be repeated.

Music 160

Beginning Pop and Jazz Keyboard

Unit(s): 1

Class Hours: 16 Lecture, 16 Laboratory total. Introduction to keyboard improvisation skills. Emphasizes playing by ear and making simple keyboard arrangements from lead sheets in jazz and pop styles. Ability to read music and daily practice required. Music 161 or elementary piano ability recommended. May be repeated.

Music 161 Class Piano I

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

Class Hours: 16 Lecture, 16 Laboratory total.

Prerequisite: Music 061 or 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

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

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

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

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

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

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

Class Hours: 16 Lecture, 16 Laboratory total. Prerequisite: Music 164B.

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. May be repeated.

Music 169

Harmonization At the Keyboard

Unit(s): 1

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. May be repeated.

Music 170 **Piano Clinic**

Unit(s): 1

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

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**

Unit(s): 1

Drums

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

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

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

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

Class Hours: 48 Laboratory total.

Mixed ensemble for the study, rehearsal and performance of Mariachi repertoire with an emphasis on the music from Jalisco. Each semester requires the performance of different repertoire. Designed for students who have basic performance skills. May be repeated.

Music 179 Technique Studies for Pianist

Unit(s): 1

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. May be repeated.

Music 180 String Methods

Unit(s): 1

Class Hours: 16 Lecture, 16 Laboratory total. Instruction on violin, viola, cello or string bass in an ensemble setting at the beginning and intermediate levels. Fundamental skills developed through rehearsal and inclass performance of technical exercises and beginning orchestral repertoire. May be repeated.

Music 181 Chamber Orchestra

Unit(s): 1

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

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

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

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

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. May be repeated.

Music 189 Guitar Ensemble

Unit(s): 1

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 post-production for television, film and music. Orientation to functions, user interface and actual operation of digital audio workstation. Techniques and aesthetics associated with creation of well-mixed soundtracks are addressed. Hands-on practice with digital recording and editing of soundtracks. (Same as Television/Video Communications 190.)

Music 211

Music History and Literature

Unit(s): 3

Class Hours: 48 Lecture total.

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. Recommended preparation: Music 112

Music 213 Theory 3

Unit(s): 3

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

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

Class Hours: 16 Lecture, 96 Laboratory total. Prerequisite: Music 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

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

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

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. May be repeated.

Music 241

Chamber Music Ensemble

Unit(s): 1

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 271 **Symphonic Band**

Unit(s): 1

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. Grade: Pass/No Pass Only.

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

Examines principles of caring for patients experiencing cardiopulmonary emergencies. Includes arrhythmia recognition, psychomotor skills, and medications used to manage cardiac arrest. Current BLS card and fee required. Must contact Health Science Skills Lab at (714) 546-6869 for paperwork BEFORE registration. May be repeated. Grade: Pass/No Pass Only.

NURSING-REGISTERED (NRN)

Nursing-Registered 045 Cardiopulmonary Resuscitation Recertification

Unit(s): 0.2

Class Hours: 7 Lecture. 1 Laboratory total. Prerequisite: Concurrent enrollment in Registered Nursing, EMT, or RN Re-entry.

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, Biology 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

Class Hours: 240 Laboratory total. Prerequisite: Biology 239, Biology 249, Biology 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

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 Nursing-Registered 102.

Clinical laboratory experience emphasizing the nursing process in the care of women, parents and children of diverse cultures with biological and psychosocial system need deficits. Application of the nursing process in acute care and communitybased 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

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 104 Communication for the Health Care Professional

Unit(s): 3

Class Hours: 48 Lecture total.

Introduction to communication skills vital to health care settings - listening, small group interaction, presentation skills, cultural awareness, expressions and terminology used in health care settings. Designed for students whose first language is not English. (Same as Speech Communication 107).

Nursing-Registered 105 Cooperative Work Experience Education-Occupational

Unit(s): 1 - 4

Class Hours: Arranged.

Prerequisite: Nursing-Registered 201L, Concurrent enrollIment 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, 150-224 hours = 2 units, 225-299 hours = 3 units, and 300-360 hours = 4 units. May be repeated. Grade: Pass/No Pass Only.

Nursing-Registered 106 Health Sciences Skills Laboratory - First Year

Unit(s): 0.5

Class Hours: 24 Laboratory total. Prerequisite: Enrollment in the Registered Nursing Program, EMT, any N.C.E. courses, or RN re-entry.

Supervised use of skills lab to assist the student in development of clinical competency and mastery of psychomotor skills for the first year student. May be repeated. 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 Nursing-Registered 102/102L.

Nursing-Registered 200 Role Transition

Unit(s): 2

Class Hours: 32 Lecture total. Prerequisite: Acceptance into the Nursing Program.

Bridge course for LVN or transfer student with an emphasis on RN role development. Application of the nursing process within the Santa Ana College Nursing Conceptual Framework. Review of test-taking strategies, medication calculations, fluid balance and skills testing. Open to all nursing students; required of advanced placement. Grade: Pass/No Pass Only.

Nursing-Registered 201 Nursing Process: Critical Biological & Psychosocial System Needs I

Unit(s): 4

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

Class Hours: 240 Laboratory total. Prerequisite: Nursing-Registered 102, 102L. 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

Class Hours: 64 Lecture total.

Prerequisite: Nursing-Registered 201, 201L. Concurrent enrollment in Nursing-Registered 202L.

Emphasizes nursing process for adult and geriatric patients of diverse cultures with critical psychosocial and biological system needs with a focus on R.N. role in leadership, decision-making and patient teaching.

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

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 206 Health Sciences Skills Laboratory Second Year

Unit(s): 0.5

Class Hours: 24 Laboratory total. Prerequisite: Enrollment in the Registered Nursing Program, EMT, any N.C.E. courses, or RN re-entry.

Supervised use of skills lab to assist the student in development of clinical competency and mastery of psychomotor skills for the second year student. May be repeated. Grade: Pass/No Pass Only. Open Entry/Open Exit.

NUTRITION & FOOD (NUTR)

Nutrition & Food 062 Basic Techniques of Cooking

Unit(s): 2

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

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

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

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

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

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

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

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 - 4

Class Hours: Arranged.

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

Class Hours: 16 Lecture total. Prerequisite: Biology 149 or 239 and 249.

This course will offer an introduction to basic medical terminology and documentation appropriate to practice needs of the Occupational Therapy Assistant. May be

Occupational Therapy Assistant 101 Foundations of Occupation and Occupational Therapy

Unit(s): 4

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): 2.5

Class Hours: 128 Laboratory total.

Prerequisite: English 101 or 101H, and 3 units of Communication Studies (101 or 101H, 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

Class Hours: 64 Lecture total.

Prerequisite: Occupational Therapy Assistant 101 with a minimum grade of C and Occupational Therapy Assistant 101L with a minimum grade of C.

This course will define and explore psychosocial phenomena commonly seen by the Occupational Therapy Assistant and will examine evaluation techniques, functional deficits and methods of treatment.

Occupational Therapy Assistant 102L Psychosocial Components of Occupation

Unit(s): 2.5

Class Hours: 128 Laboratory total. Prerequisite: Occupational Therapy Assistant 100, 101, 101L.

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

Class Hours: 64 Lecture total.

Prerequisite: Occupational Therapy Assistant 102 with a minimum grade of C and Occupational Therapy Assistant 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: Occupational Therapy Assistant 102 with a minimum grade of C and Occupational Therapy Assistant 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

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

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

Class Hours: 32 Lecture total.

Prerequisite: Occupational Therapy Assistant

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

Class Hours: 48 Lecture, 48 Laboratory total. Prerequisite: Occupational Therapy Assistant 102 with a minimum grade of C and Occupational Therapy Assistant 102L with a minimum grade of C.

This lecture/lab course explores the multiple roles of the occupational therapy assistant in documentation, service management, professional behaviors, non-traditional roles, and contemporary models of practice.

Occupational Therapy Assistant 202 Level II Fieldwork - Part I

Unit(s): 6

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.

Occupational Therapy Assistant 203 Level II Fieldwork - Part II

Unit(s): 6

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 **Introduction to Paralegal Studies**

Unit(s): 3

Class Hours: 48 Lecture total.

Study of the legal assistant profession. Duties of a legal assistant, investigation, basic law office organization, court system and research fundamentals. Focus on ethics, terminology, and interviewing with sensitivity toward the diverse cultural mix of our society.

Paralegal 101 **Law Office Management**

Unit(s): 2

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 - 4

Class Hours: Arranged.

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

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

Paralegal 120 **Computers in the Law Office**

Unit(s): 4

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

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

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

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

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

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

Class Hours: 32 Lecture total.

Prerequisite: Paralegal 100 or concurrent

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

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

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

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

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

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

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

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

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

Class Hours: 32 Lecture total. Prerequisite: Paralegal 100 or concurrent enrollment 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

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 147 **International Commercial Agreements and Distribution Law**

Unit(s): 1

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

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

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 246 **Legal Research and Analysis**

Unit(s): 4

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

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 298 The Professional Paralegal

Unit(s): 2

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/certificate. Students will demonstrate their knowledge of ethics, legal principles, and the technical skills necessary for entry level employment as a paralegal. May be repeated. Grade: Pass/ No Pass Only.

Paralegal 299

Cooperative Work Experience Education

Unit(s): 1 - 4

Class Hours: Arranged.

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

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

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 057 Inpatient Pharmacy Services

Unit(s): 1.5

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 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 061 Pharmacy Technology Skills Lab

Unit(s): 0.5 - 6

Class Hours: 16-192 Laboratory total. Prerequisite: Concurrent enrollment in Pharmacy Technology 056, 057, 060, 072, or 084. Returning students who took Pharmacy Technology 056, 057,060,072, or 084 can take Pharmacy Technology 061 alone.

Supervised use of the Pharmacy
Technology lab to assist the student in developing competency in the technical skills required to successfully complete the Pharmacy Operations, Inpatient Pharmacy Services, Sterile Products, Pharmacy Technology Externship, and/or Sterile Products Review courses. 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

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. May be repeated.

Pharmacy Technology 072 Pharmacy Technology Externship

Unit(s): 0.5 - 6

Class Hours: 40-480 Laboratory total. Prerequisite: Pharmacy Technology 056, 057, or 060 with a grade of C or better; current TB clearance; Communications Studies 097, 101, 101H 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). May be repeated. Open Entry/Open Exit.

Pharmacy Technology 080 Pharmacy Calculations Review

Unit(s): 2

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. May be repeated.



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.

PHILOSOPHY (PHIL)

Philosophy 106 **Introduction to Philosophy**

Unit(s): 3

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

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

An enriched approach designed for honors students. A survey of historical and contemporary ideas on how to live the good life.

Philosophy 108

Ethics

Unit(s): 3

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

Class Hours: 64 Lecture total. Prerequisite: English 101 or 101H 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 **Honors Critical Thinking**

Unit(s): 4

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. Collegelevel 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 **Introductory Logic**

Unit(s): 4

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

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

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

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 010 **Intermediate Photography Lab**

Unit(s): 0.5

Class Hours: 24 Laboratory total.

Prerequisite: Concurrent enrollment in a pho-

tography course.

Sign-in/out supervised laboratory. Work on assignments from other photography courses or on independent projects. Completion of new and more advanced assignments each semester. Accumulation of 24 hours earns 0.5 unit. Requires concurrent enrollment in a photography course. May be repeated. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Photography 150 **History of Photography**

Unit(s): 3

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

Class Hours: 32 Lecture, 48 Laboratory total. A beginning black and white photography course including cameras, exposure meters, film, lighting, darkroom printing, digital process and print presentation. The student will develop aesthetic knowledge and technical skills of photography. An adjustable film camera is required. May be repeated.

Photography 181A The Zone System

Unit(s): 3

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: Photography 180.

Emphasis on zone system techniques and interpretive assignments in black and white photography. An adjustable film camera is required. May be repeated.



Photography 181B The Zone System

Unit(s): 3

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: Photography 181A.

Continued instruction expanding zone system techniques and interpretive assignments in black and white photography. An adjustable film camera is required. May be repeated.

Photography 182A Alternative Processes

Unit(s): 3

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: Photography 180.

An advanced photography course emphasizing alternative and non-silver processes including cyanotype, Van Dyke brown, Kwik Print and liquid emulsion. An adjustable film camera required. May be repeated.

Photography 182B Alternative Processes

Unit(s): 3

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: Photography 182A.

Continuation of an advanced photography course emphasizing alternative and non-silver processes including cyanotype, Van Dyke brown, Kwik Print and liquid emulsion. An adjustable film camera required. May be repeated.

Photography 183A Photo Graphics

Unit(s): 3

Class Hours: 32 Lecture, 48 Laboratory total. Prerequisite: Photography 180.

An advanced photgraphy course with E emphasis on high contrast, infrared, solarization, multiple printing and, toning, handcoloring and lith printing. May be repeated.

Photography 183B Photo Graphics

Unit(s): 3

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: Photography 183A.

Continuation of an advanced photography course with emphasis on high contrast, infrared, solarization, multiples printing and handcoloring. May be repeated.

Photography 185A Landscape Photography

Unit(s): 3

Class Hours: 32 Lecture, 48 Laboratory total.

Prerequisite: Photography 180.

Instruction in cityscape, seascape, and landscape photography with special attention given to documentary, pictorial, and metaphorical styles. An adjustable film camera required. May be repeated.

Photography 185B Landscape Photography

Unit(s): 3

Class Hours: 32 Lecture, 48 Laboratory total. Prerequisite: Photography 185A.

Continued instruction in cityscape, seascape, and landscape photography with special attention given to documentary, pictorial, and metaphorical styles. An adjustable film camera required. May be repeated.

Photography 190 Introduction to Digital Photography

Unit(s): 3

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. May be repeated.

Photography 191 Intermediate Digital Photography

Unit(s): 3

Class Hours: 32 Lecture, 48 Laboratory total. Prerequisite: Photography 190.

An intermediate course in the techniques and skills of electronic and digital/computer technologies in photography. Includes advanced scanning, printing, and digital camera techniques. Exploration and experimentation of digital imaging. An adjustable digital camera is required. May be repeated.

Photography 194 Professional Digital Photography Methods

Jnit(s): 3

Class Hours: 32 Lecture, 48 Laboratory total. Prerequisite: Photography 180 and 190 or Photography 191.

Focus on practices utilized in the digital photography profession, including advanced retouching techniques, and processing both for print and the internet. Students will explore buiness aspects of photography and build a portfolio. Digital DLR camera required. May be repeated.

Photography 196 Introduction to Commercial Photography

Unit(s): 3

Class Hours: 32 Lecture, 48 Laboratory total. Prerequisite: Photography 180.

Instruction in commercial photography lighting, techniques, and subjects. Handson activities, lectures, and demonstrations of portrait/wedding, architecture, table top/product illustration, stock photography, and photojournalism techniques. May be repeated.

Photography 197 Intermediate Commercial Photography

Unit(s): 3

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. May be repeated.

Photography 200 The View Camera

Unit(s): 3

Class Hours: 32 Lecture, 48 Laboratory total. Prerequisite: Photography 180.

Provides an introduction to the view camera as it is used in studio and location photography. The course includes: lens and film selection, camera controls, and laboratory processing techniques. Class field assignments emphasize creative solutions to photographic assignments. May be repeated.

Photography 291 Wedding and Quinceanera Photography

Unit(s): 3

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

Class Hours: 32 Lecture, 48 Laboratory total. Prerequisite: Photography 180.

Portrait photography from historical and contemporary viewpoints. Available and studio lighting techniques applied to portrait styles provide the student with a broad range of expression. 35mm (or larger) camera with medium telephoto lens required. Includes darkroom activities and out of class assignments. May be repeated.

Photography 293 Color Photography

Unit(s): 3

Class Hours: 32 Lecture, 48 Laboratory total. Prerequisite: Photography 180.

Introduction to the theory and practice of color photography. Students expose color negative film and process color prints. Course includes interpretive (field) assignments, lectures, laboratory work, and critiques. Camera required.



Photography 294 **Color Photographic Expression**

Unit(s): 3

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

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

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

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

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

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

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

Class Hours: 48 Lecture, 48 Laboratory total. Prerequisite: Mathematics 180 or 180H 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

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, electro-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

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**

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

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

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

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

A student-oriented exploration of the historical and contemporary principles of American government. Study groups and individual computer-based research focus on basic political concepts of American national and state governments. Satisfies graduation requirement for American Institutions and state requirements for California state government.

Political Science 200 American Political Thought

Unit(s): 3

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

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

An in-depth and intensive exploration of critical influences that have shaped it. Emphasizing student interaction and essay writing in a seminar setting, the course focuses on an historical analysis of political thought contributing to contemporary American politics.



Political Science 201 Introduction to Comparative Politics

Unit(s): 3

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

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 rich versus poor nations in context of the new world order.

Political Science 235 Identity Politics

Unit(s): 3

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

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 (C-ID PSY 110) Honors Introduction to Psychology

Unit(s): 3

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

Seminar-style, content-enriched course for honors students 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

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

Class Hours: 48 Lecture total.

Survey of human development from conception through adolescence. Covers major theories of development (cognition, perception, language, personality, etc.) and their application to parenting, teaching, and other interactions with children. (No credit if student has taken Human Development 107.)

Psychology 170 Multicultural Psychology

Unit(s): 3

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

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

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

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

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

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 N49A Reading for Non-Native Speakers of English - Part I

Unit(s): 3

Class Hours: 48 Lecture, 16 Laboratory total. A beginning academic reading course for students who have had some exposure to English. Development of vocabulary, word attack skills, spelling, reading strategies, and reading comprehension. 16 additional hours in Reading Lab required (one hour per week for 16-week semester sections). Not applicable to associate degree. This class is recommended for students enrolled in ESL N40B and ESL N49. Grade: Pass/No Pass Only.



Reading N49B **Reading for Non-Native Speakers of** English - Part I

Unit(s): 3

Class Hours: 48 Lecture, 16 Laboratory total. Continued development of vocabulary, word attack skills, spelling, reading strategies, and reading comprehension for nonnative speakers of English. 16 additional hours in Reading Lab required (one hour per week for 16-week semester sections). Not applicable to associate degree. This class is recommended for students who need more practice at this level. Grade: Pass/No Pass Only. Grade: Pass/No Pass Only.

Reading N50A **Reading for Non-Native Speakers of** English - Part II

Unit(s): 3

Class Hours: 48 Lecture, 16 Laboratory total. An expanded focus on reading for nonnative speakers of English. Continued development of vocabulary, word attack skills, spelling, reading strategies, and reading comprehension. 16 additional hours in Reading Lab required (one hour per week for 16-week semester sections). Not applicable to associate degree. Grade: CR/NCR only. This class is recommended for students who have taken Reading N49A or Reading N49B. Grade: Pass/No Pass Only.

Reading N50B **Reading for Non-Native Speakers of** English - Part II

Unit(s): 3

Class Hours: 48 Lecture, 16 Laboratory total. Continued expansion of reading skills for non-native speakers of English, with a focus on vocabulary development, word attack skills, spelling, reading strategies, and reading comprehension. 16 additional hours in Reading Lab required (one hour per week for 16-week semester sections). Not applicable to associate degree. Grade: CR/NCR only. This class is recommended for students who need more practice at this level. Grade: Pass/No Pass Only.

Reading N80A **Fundamentals of Reading**

Unit(s): 3

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 N80B **Fundamentals of Reading**

Unit(s): 3

Class Hours: 48 Lecture total. Prerequisite: Reading N80A.

Continued 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 N90A Individualized Reading

Unit(s): 3

Class Hours: 48 Lecture, 16 Laboratory total. Individualized instruction in vocabulary, comprehension, critical evaluation and reading rate. Grade: P/NP only. 16 additional hours in Reading Lab required (one hour per week for 16-week semester sections). Grade: Pass/No Pass Only.

Reading N90B **Individualized Reading**

Unit(s): 3

Class Hours: 48 Lecture, 16 Laboratory total. Prerequisite: Reading N90A.

Further develops reading skills. Individualized instruction in vocabulary, comprehension, critical evaluation and reading rate. Grade: P/NP only. 16 additional hours in the Reading Lab required (one hour per week for 16-week semester sections). Grade: Pass/No Pass Only.

Reading 091 Reading for Meaning-U.S. History

Unit(s): 3

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 102 **Academic Reading**

Unit(s): 3

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

Class Hours: 48 Lecture total.

This course addresses the relationship between critical reading and critical thinking, including emphasis on the development of critical reading and thinking skills that facilitate the interpretation, analysis, criticism, and advocacy of ideas encountered in academic reading. Completion of or concurrent enrollment in English 101 recommended.

SCIENCE (SCI)

Science 200 **Environment of Man**

Unit(s): 3

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

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

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

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

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

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

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 vour 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

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 Statistics and Probability

Unit(s): 4

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

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

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

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

A seminar-style, content enriched course to provide a critical and extensive exploration of the sociological perspective, methods, and theories of social interaction, stability and change, Focuses on the importance of sociology for understanding individuals in a social context and provides a comprehensive understanding of and scientific way of thinking about society.

Sociology 112 Relationships, Marriages, and Family **D**vnamics

Unit(s): 3

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 (C-ID SOCI 115) **Analysis of Social Trends and Problems**

Unit(s): 3

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 (C-ID SOCI 115) **Honors Analysis of Social Trends and**

Unit(s): 3

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

A seminar-style, in-depth sociological

analysis and critique of U.S. social trends and problems with an emphasis on contemporary and historical social policy, with additional consideration of global perspectives.

Sociology 240 **Introduction to Social Psychology**

Unit(s): 3

Class Hours: 48 Lecture total.

Prerequisite: Sociology 100 or Psychology

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**

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

Class Hours: 80 Lecture, 16 Laboratory 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. Sixteen additional hours in the Modern Language Lab required. (One hour per week for 16-week semester sections and two hours per week for 8-week summer sessions).

Spanish 101H Honors Elementary Spanish I

Unit(s): 5

Class Hours: 80 Lecture, 16 Laboratory total. Prerequisite: A high school or college GPA of 3.0 or above.

Enhanced and intensive practice and integration of pronunciation, grammar, vocabulary, common idioms, listening, speaking, reading and writing techniques for the expression of ideas orally and in writing. Enriched introduction of Hispanic culture. NOTE: Some sections are designated for Spanish speakers. Spanish 101H is equivalent to two years of high school Spanish. Sixteen additional hours in the Modern Language Lab required. (One hour per week for 16-week semester sections and two hours per week for 8-week summer sessions).

Spanish 102 **Elementary Spanish II**

Unit(s): 5

Class Hours: 80 Lecture, 16 Laboratory 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. Sixteen additional hours in the Modern Language Lab required. (One hour per week for 16-week semester sections and two hours per week for 8-week summer sessions).



Spanish 102H Honors Elementary Spanish II

Unit(s): 5

Class Hours: 80 Lecture, 16 Laboratory 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 102H is equivalent to the third year of high school Spanish. Sixteen additional hours in the Modern Language Lab required. (One hour per week for 16-week semester sections and two hours per week for 8-week summer sessions).

Spanish 195A

Advanced Conversational Spanish

Unit(s): 3

Class Hours: 48 Lecture total.

Prerequisite: Spanish 102 or 102H.

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

Spanish 195B

Hispanic cultures.

Advanced Conversational Spanish

Unit(s): 3

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

Class Hours: 80 Lecture total.

Prerequisite: Spanish 102 or 102H or three years of high school Spanish with a grade of C or better

A college level Spanish class focusing on expansive review of usage and grammar, discussions of interpretive readings, conversation, and composition.

Spanish 201H

Honors Intermediate Spanish I

Unit(s): 5

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

Class Hours: 80 Lecture total.

Prerequisite: Spanish 201 or 201H 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

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

Class Hours: 48 Lecture total.

Prerequisite: Spanish 202 or 202H 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

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

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 N45 Introduction to Service Learning

Unit(s): 2

Class Hours: 16 Lecture, 48 Laboratory total.

Opportunities for students to perform service learning work in the community.

Students will address a cause that meets a local community need and apply skills learned in the classroom to community-based experiences. Includes structured time and activities for students to evaluate their service learning experience. Not applicable to associate degree. May be repeated.

Special Services N50A English for the Deaf and Hard of Hearing

Unit(s): 0.5 - 3

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

Class Hours: 8-48 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

Class Hours: 8-16 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

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 N62 Assessment of Learning Potential

Unit(s): 0.2

Class Hours: 10 Laboratory total.

Designed to assess the learning potential, learning deficits and basic skill levels of students referred to the Learning Disabilities Program. Not applicable to associate degree. 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. May be repeated. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Special Services N84 Employment Preparation

Unit(s): 0.5 - 3

Class Hours: 8-48 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: 24-72 Laboratory total. Prerequisite: Verified brain impairment.

Fundamentals of Cognitive Retraining is designed for individuals who have sustained an acquired brain impairment and who are experiencing cognitive difficulties. Instruction focuses on improving attention and concentration, perceptual processing skills and memory. Arranged schedule. May be repeated. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Special Services N92 **Assistive Computer Technology** Instruction

Unit(s): 0.5 - 2

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. May be repeated. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Special Services N94 Intermediate Cognitive Retraining

Class Hours: 24-72 Laboratory total.

Unit(s): 0.5 - 1.5

Prerequisite: Verified brain impairment. Intermediate Cognitive Retraining is designed for students who have sustained and acquired brain impairment. Instruction focuses on the use of compensatory memory strategies, utilizing critical thinking/ problem solving skills and improving organizational skills. Arranged schedule. May be repeated. Grade: Pass/No Pass Only.

Special Services N95 **Cognitive Retraining - Academic** Transition

Unit(s): 0.5 - 1.5

Class Hours: 24-72 Laboratory total. Prerequisite: Verified brain impairment Cognitive Retraining - Academic Transition is designed for students who have sustained an acquired brain impairment. Instruction focuses on utilizing and applying cognitive skills in the areas of reading, written language and study skills strategies to achieve success in an academic program. Arranged schedule. May be repeated. Grade: Pass/No Pass Only.

Special Services 205 Exceptionality and Special Needs in Human Development

Unit(s): 3

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

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 settinas.

Speech Language Pathology Assistant 119 Speech-Language and Hearing **Development Across the Life Span**

Unit(s): 3

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

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: Speech Language Pathology
Assistant 118 with a grade of C or better and
concurrent enrollment in Speech Language
Pathology Assistant 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

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

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

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 speech-language pathology assistant in an educational setting.

Speech Language Pathology Assistant 200 Adult and Geriatric Communication Disorders

Unit(s): 3

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

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

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 N96 Training for Tutorial Assistants

Unit(s): 0.5

Class Hours: 8 Laboratory total.

Designed to help develop those skills necessary to become an effective tutor. Focuses on a variety of factors relative to the tutorial relationship, with emphasis on helping students help themselves. Not applicable to associate degree. Grade: Pass/No Pass Only. Open Entry/Open Exit.

Study Skills 109 College Learning Skills

Unit(s): 3

Class Hours: 48 Lecture total.

Development of operative college learning skills. Topics include: Time Management, Listening, Notetaking, Textbook Study, Exam Preparation, Memory Techniques, and Critical Reading. May be repeated.

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

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

Jnit(s): 3

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

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

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

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

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above

Enriched honors course of intensive exploration of historical impact and current influence of Mass Media (newspapers, TV, Internet, etc.). Uses critical thinking skills in seminar-setting to assess media's role in society.

TV/Video Communications 110 Introduction to Television Production Unit(s): 3

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

TV/Video Communications 112 Introduction to Video Editing & **Postproduction**

recommended.

Unit(s): 3

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 113 Advanced Final Cut Pro

Unit(s): 3

Class Hours: 48 Lecture, 48 Laboratory total. Prerequisite: Completion of TV/Video Communications 112 with grade of C or better.

Introduction to advanced features of Final Cut Pro digital non-linear video editing system and associated plug-in programs for special effects, compositing and audio. Includes LiveType, Motion and SoundTrack Pro. Utilized for television, film, web and multi-media.

TV/Video Communications 114 Advanced Video Postproduction

Unit(s): 3

Class Hours: 48 Lecture, 48 Laboratory total. Prerequisite: Television/Video Communications 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

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

Class Hours: 48 Lecture, 48 Laboratory total. Prerequisite: Television/Video Communications 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. May be repeated.

TV/Video Communications 120 Beginning Writing for TV, Film, the **Internet and Corporate Video**

Unit(s): 3

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

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

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

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 Broadcast News Summer Workshop

Class Hours: 32 Lecture, 32 Laboratory total. Production of segments for cable television news and sports programs. Training in studio production, interviewing, oncamera appearance, and scripting. Prior or concurrent enrollment in Television/ Video Communications 110 or 130 recommended. May be repeated.

TV/Video Communications 141 On-Camera Appearance

Unit(s): 3

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

Class Hours: 32 Lecture, 32 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.). May be repeated.



TV/Video Communications 150 Producing and Directing for Television

Unit(s): 3

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. May be repeated.

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

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

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). May be repeated.

TV/Video Communications 185 3-D Animation

Unit(s): 5

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). May be repeated.

TV/Video Communications 187 Electronic Graphics for Television, Advanced Techniques

Unit(s): 2

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 post-production for television, film and music. Orientation to functions, user interface and actual operation of digital audio workstation. Techniques and aesthetics associated with creation of well-mixed soundtracks are addressed. Hands-on practice with digital recording and editing of soundtracks. (Same as Music 190.)

TV/Video Communications 230A Broadcast News Production

Unit(s): 4

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

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 Broadcast News Production

Unit(s): 4

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

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 handson 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

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 Introduction to Theatre

Unit(s): 3

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

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

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. May be repeated.

Theatre Arts 111 **Intermediate Acting**

Unit(s): 3

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. May be repeated.

Theatre Arts 113 **Acting for Television and Film**

Unit(s): 3

Class Hours: 32 Lecture, 32 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.). May be repeated.

Theatre Arts 118 **Fundamentals of Scene Study**

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 contemporary drama. Students prepare scenes with partners for performance and critique. Recommended for acting majors. May be repeated.

Theatre Arts 131 Stagecraft

Unit(s): 3

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 Stage Makeup

Unit(s): 3

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. May be repeated.

Theatre Arts 133 Stage Lighting

Unit(s): 3

Class Hours: 32 Lecture, 48 Laboratory total. Prerequisite: Theatre Arts 131.

Theory and practice of modern stage lighting including the design of lighting layouts, properties of varied conventional lighting instruments, and the hang and focus of lighting equipment for college productions.

Theatre Arts 135 Technical Production

Unit(s): 1

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 Theatre Production

Unit(s): 2

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

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

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

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. May be repeated.

Theatre Arts 154 **Performance Ensemble**

Unit(s): 2

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

Class Hours: 16 Lecture, 96 Laboratory total. Prerequisite: Audition.

Intensive rehearsal and performance experience leading to an extended-run Children's Theatre production. Preparation for repertory theatre production experience. May be repeated.

Theatre Arts 156 Readers' Theatre Workshop

Unit(s): 2

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

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. May be repeated.

Theatre Arts 166A **Intermediate Programming (Formerly: Programming and Design Projects)**

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. May be repeated.



Theatre Arts 167 Setup for Intelligent Lighting

Unit(s): 1

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. May be repeated.

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. May be repeated.

Theatre Arts 170 Entertainment Technology Internship

Unit(s): 1

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

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

Class Hours: 80 Lecture, 16 Laboratory 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. Sixteen additional hours in the Modern Language Lab required. (One hour per week for 16-week semester sessions and two hours per week for 8-week summer sessions.)

Vietnamese 102 Elementary Vietnamese II

Unit(s): 5

Class Hours: 80 Lecture, 16 Laboratory 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. Sixteen additional hours in the Modern Language Lab required. (One hour per week for 16-week semester sections and two hours per week for 8-week summer sessions).

WELDING (WELD)

Welding 008 Oxyacetylene-Arc Welding

Unit(s): 3

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

Class Hours: 24 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. May be repeated. Grade: Pass/No Pass Only.

Welding 025 Intermediate Arc Welding

Unit(s): 3

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). May be repeated. Grade: Pass/ No Pass Only.

Welding 029 Advanced Arc Welding

Unit(s): 3

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 bend test required for structural steel certification. May be repeated.

Welding 039 Inert Gas Welding

Unit(s): 4

Class Hours: 32 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. May be repeated.

Welding 040 Welding Certification Training

Unit(s): 3

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. May be repeated.

Welding 041

Welding Certification Exam Preparation

Unit(s): 3

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.

WOMEN'S STUDIES (WMNS)

Women's Studies 101 Introduction to Women's Studies

Unit(s): 3

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

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.





CONTINUING EDUCATION





SANTA ANA COLLEGE / SANTIAGO CANYON COLLEGE INSTRUCTIONAL CALENDARS

CONTINUING EDUCATION DIVISION
INSTRUCTIONAL CALENDAR 2012-2013

FALL SEMESTER 2012

August 20-24 Faculty projects INSTRUCTION BEGINS August 27 September 3 Labor Day - holiday November 12 Veterans' Day - holiday November 19-24 Thanksgiving – holiday December 15 **INSTRUCTION ENDS** December 17 - January 9 Winter recess

SPRING SEMESTER 2013

Faculty projects INSTRUCTION BEGINS January 11 & 14 January 15 King's Birthday - holiday January 21 February 15-16 Lincoln's Birthday - holiday President's Day - holiday February 18 March 29 Cesar Chavez Day April 1-6 SCE Spring recess† May 27 Memorial Day - Holiday June 6 OEC Commencement June 7 **CEC Commencement** June 8 INSTRUCTION ENDS

SUMMER SESSION 2013

INSTRUCTION BEGINS** July 1 Independence Day - holiday July 4 INSTRUCTION ENDS August 10

COLLEGE CREDIT CLASSES INSTRUCTIONAL CALENDAR 2012-2013

FALL SEMESTER 2012

August 20-22 Faculty projects August 23-24 Common college flex days August 27 **INSTRUCTION BEGINS** September 3 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 September 9 September 28 Deadline for Graduation Petition October 19 November 12 Veterans' Day - holiday Last day to drop semester-length November 18 classes with a "W" grade Thanksgiving – holiday INSTRUCTION ENDS November 22-24 December 16 December 17-January 5 Holiday break

SPRING SEMESTER 2013

King's Birthday - holiday January 21 January 22-23 Faculty projects January 24-25 Common college flex days INSTRUCTION BEGINS January 28 Last day to add and to drop full-term classes February 10

Last oay 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 February 15 February 18 March 1 Deadline for Graduation Petition March 8

Spring recess March 25-30 March 29 Cesar Chavez Dav

Last day to drop semester-length April 28

classes with "W" grade

May 23 Commencement - Santiago Canvon College Commencement - Santa Ana College May 24

May 26 INSTRUCTION ENDS

SUMMER SESSION 2013

May 27 Memorial Day - holiday INSTRUCTION BEGINS June 3 Independence Day - holiday July 4 August 5 INSTRUCTION ENDS

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^{*} could change to correspond with unified school district

^{**} beginning date could be adjusted

[†] SAC/SCE Spring recess dates may be adjusted to correspond to unified school district instructional calendar.



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

- Provides educational assessment services.
- 2. Provides orientation to a variety of programs.
- 3. Offers career vocational guidance.
- 4. Offers referrals to community agencies.
- 5. Provides personal counseling.

PROGRAM OBJECTIVES

Adult Basic Education

- Teaches the basic academic and life skills necessary for success in today's world.
- 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.
- Provides coursework that enables students to meet proficiency requirements.
- 3. Provides counseling and guidance services to students.
- 4. Encourages high school students to pursue higher education goals.

Child Care Licensing Program

 Provides child care licensing programs so students can obtain employment or open their own child care home business.

Citizenship Preparation

- 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

 Provides opportunities for the realization of individual potentials in the areas of education, work, and social interaction.

English as a Second Language

- Develops English competency for basic community survival in non-native speakers.
- Improves fluency levels for success in vocational, high school, and college credit programs.
- 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
- 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

 Assists students in preparing for the GED examination.

Parent Education

- 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.
- 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.
- Provides courses that are updated through input from business industry advisory councils and the mandates of occupational licensing agencies.
- 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 non-English 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

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 counseling and job development services, academic, personal and vocational assistance to adult students who need guidance in planning and attaining their short and long term goals and student success skills.

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 Santa Ana, CA 92704 714-241-5700

Santa Ana College

1530 West 17th Street Santa Ana, CA 92706 Room B-8 714-241-5798

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

9 a.m. – 7 p.m. Thursday 9 a.m. – 6 p.m. Closed 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

Subject Area

Electives

The high school diploma requires a total of 160 credits taken from the following:

Credits

40.0

English Communication (a maximum of 10 credits of reading; must include at least one composition course)	40.0
Mathematics	20.0
Natural Sciences (must include both a biological and a physical science course)	20.0
Social and Behavioral Sciences (must include U.S. History, World phy, World History, American Gov Economics and a Social Science	ernment,
Humanities	10.0

There may be additional requirements due to Title 5 changes for the 2011-2012 school year.

TOTAL

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

- 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
- 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 Experi**ences In The Armed Services. Vol. I-Air Force; Vol. II.-Army; Vol. III-Coast Guard, Marine, and Navy.

This section is to be interpreted as including:

- 1. Officer and enlisted service school courses;
- 2. Off-duty classes offered by the armed forces and cooperating local institutions:
- 3. Correspondence courses offered by the United States Armed Forces Institute, the Marine Corps Institute, the Coast Guard Institute, and cooperating colleges and universities;

4. United States Armed Forces Institute courses and subject examinations. (Authorization for this procedure is contained in Title V, Section 99, part C, of the California Administrative Code.)

D. College Credit Courses

College units to be used for high school credits may be evaluated in a ratio of 3 college units to 10 high school semester periods of credit. The college should be notified in writing when college credits are utilized to meet high school requirements.

College credit equivalency recommended by the American Council on Education guides will be evaluated for high school credit on the same basis as other college credit courses.

E. Correspondence Courses

Courses taken by correspondence will be evaluated for possible high school credit equivalency. Courses in this category must be approved by the Office of Private Postsecondary Education.

It is the responsibility of the student to provide to the district transcripts, certificates, and/or other records requested for the evaluation and possible awarding of credit.

F. Adult School Credit Courses

Courses taken at adult schools will be evaluated for possible high school credit equivalency. Courses in this category must be approved by the California State Department of Education.

No credit will be allowed for physical education courses nor for courses from other adult schools if such courses are designated in the Rancho Santiago Community College District as "no high school credit."

It is the responsibility of the student to provide to the district transcripts, certificates, and/or other records requested for the evaluation and possible awarding of credit.

G. Work Experience Credit

Students may obtain credit for certain types of full-time work experience, or for work experience that can be related to high school subject matter.

In order to obtain credit for work experience, students must provide written verification from those employers with whom they have worked for at least one vear.

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 lowa 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.)

Subject Matter Credit by Examination

Credit by examination may be earned only for courses that are currently listed in the Rancho Santiago Community College District catalog and/or specifically designated by the division curriculum committee as courses that are eligible for credit by examination. Information for receiving this credit may be obtained from a counselor in Continuing Education.

J. Regional Occupational **Program Courses**

Credit will be determined upon receipt of an official secondary or community college transcript which indicates credit and grades as appropriate.

Guidelines for issuance of ROP credit when not on a unified school district transcript:

- RSCCD will accept an official Grade Reporting Sheet from Central County Regional Occupational Program in lieu of a unified school district transcript provided it has a grade and a number of total hours.
- The amount of credit issued is to be based on 16 clock hours per credit unit.
- The maximum of 20 units toward electives will be accepted in this manner.
- 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 rewarded.

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.)

Veterans

Educational opportunities are available for veterans attending continuing education courses for high school credit. Veterans may inquire about qualifications for benefits by speaking to a School of Continuing Education counselor or by calling the Veterans' office at Santa Ana College, 564-6050. Veterans must enroll with a School of Continuing Education counselor each term.



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:

- Day Classes: two weeks, or five days in succession.
- Evening Classes: four class meetings.
- High School Subjects/Programmed Instruction: two weeks.

B. Grading Standards/Procedures

- A Superior 4 grade points per NC unit
- B Good 3 grade points per NC unit
- C Satisfactory 2 grade points per NC unit
- D Less Than Satisfactory 1 grade point per NC unit

CR/NCR - Credit/No credit 0 grade points

F Fail 0 grade points (but counted in GPA)

P Pass 0 grade points

CIP In Progress 0 grade points

0 grade points

SP Satisfactory Progress

Withdrawal

NP No Measurable Progress

COM Completed

CR Credit

W

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.

- 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.
- 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

- 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.
- 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.



- 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.
- 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 (q.) 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.
- 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.
- 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. Veterans Benefits Procedures

- 1. Veterans of the United States Armed Forces enrolling in Continuing Education classes and expecting to receive veterans' benefits, must apply for benefits through the Veterans Office at Santa Ana College.
- 2. The Veterans Office will require a copy of the veteran's registration

- form and the class schedule (completed by a counselor) for verification of enrollment before processing any VA benefit forms.
- A veteran must be enrolled in, and attending a minimum of 20 credit units, 16 hours per week to be eligible for full time VA educational benefits; 15 credit units, 12 hours per week for 3/4 time benefits and 10 credit units, 9 hours per week for half-time benefits.
- 4. All VA forms for veterans will be completely processed by the Veterans Office. Veterans are to be referred to the Veterans Office on Santa Ana College for any and all questions, problems, enrollment and attendance certifications for VA benefits

G. 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.

- 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.
- Books and Supplies: Students must provide textbooks and supplies required for the classes in which enrolled.
- 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.



H. High School Students Taking College **Credit Classes for High School Diploma Credit**

- 1. This program represents a cooperative venture between Rancho Santiago Community College District, neighboring high schools and the School of Continuing Education.
- 2. Students who are over eighteen years of age and have not graduated from high school may take Rancho Santiago Community College District courses for high school credit. Students will be admitted to those programs that have space available upon recommendation of the Area Dean-Continuing Education or designee.
- 3. Students under the age of eighteen who are high school students may receive high school or college credit for courses, but must also attend a minimum day at the high school. Students will be admitted to those programs that have space available, upon recommendation of the high school principal or desig-
- 4. Repeating a course already passed will result in a credit-only gradenot a letter grade.
- 5. If a student elects to receive high school credit for work taken at the college, the decision must be made prior to registration. College credit for that work may not be received at a later time.
- 6. Enrollment in, and completion of, course work in the Rancho Santiago Community College District credit division can also satisfy the residency requirement of the Continuing Education High School Diploma Program.

Special Rules, Regulations and Student Obligations

Because of special program characteristics, the following programs must adhere to special rules, regulations and student obligation beyond the **Standard Guidelines for Student** Conduct adopted by the Rancho Santiago Community College District. Students enrolled in any of the following programs are obligated to perform within those special program guidelines in order to maintain class attendance: Apprenticeship; Service-Employment-Redevelopment (SER); and, any other community-based organization or governmental agency with which the

Rancho Santiago Community College District cooperates in a program offer-

J. 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.

K. 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.

L. 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.
- 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

Santa Ana College School of Continuing Education Office Centennial Education Center 2900 West Edinger Avenue Santa Ana, CA 92704 714-241-5700

Mission Statement

The Santa Ana College School of Continuing Education is a responsive community leader dedicated to adult student success through innovative educational programs and services. The School of Continuing Education prepares students to transition to college, improve language and workforce skills, increase civic involvement, and promote lifelong learning.

The Centennial Education Center (CEC) office is located at the corner of Fairview and Edinger, Santa Ana, near convenient bus stops. Office Hours: Monday through Thursday, 8:00 am–8:45 pm, Friday, 8:00 am–12:45 pm, Saturday, 8:00 am–11:45 am.

The Centennial Child Development Center provides services to Santa Ana College School of Continuing Education students' children between the ages of 2 and 5 based on space availability. Fees are based on a sliding scale and children need to be enrolled on a regular basis.

Centennial Education Center offers a wide range of classes. Because classes are offered on an open entry/open exit basis, students may register at any time throughout the year.

Student Outreach provides admissions information, ensures access 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 self-monitor 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, spelling, mathematics, English usage and grammar. Twenty (20) 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 INSTRUCTIONAL PROGRAMS AND COURSES

Continuing Education courses are listed by subject on the following pages. Course numbers are listed at the beginning of each course title.

Open entry/open exit courses are noted in the course descriptions. Students may enroll at any time in these courses and begin class immediately. Students progress at their own rate and may exit from the class at any time upon satisfactory completion of the required work.

In other courses, class hours refer to the number of hours that the class is scheduled to meet per week during a term.

All credits listed are high school credits. In traditional courses, students earn credits by satisfactorily completing the course. In open entry/open exit courses, students earn credits by meeting individual competency-based objectives.

Some noncredit programs offer a sequence of courses leading to a certificate.

The class schedule should be consulted for current offerings.



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:	Jnits
HSS Social Science 218, U.S. History 1,	5
Colonization to Industrialization	
HSS Social Science 219, U.S. History 2,	5
The Shaping of Modern America	
HSS Social Science 222, Government 1,	5
U.S. Federal Government and Politics	
Plus a minimum of 145 required units from the following courses:	145
TOTAL	160

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

ESL CERTIFICATE OF COMPLETION

The sequence of courses helps students to gain and improve language skills and prepares them for other educational opportunities, such as ABE, GED, HSS, or college credit programs.

Core Courses:

Core Courses.
ESL 393, Introduction to ESL Family Literacy
ESL 399, ESL Literacy
ESL 400, Transition ESL
ESL 410, Beginning ESL 1
ESL 420, Beginning ESL 2
ESL 430, Beginning ESL 3
ESL 460, Intermediate ESL 1
ESL 470, Intermediate ESL 2
ESL 480, Intermediate ESL 3

Electives:

ESL 038, 060, 130, 140, 392, 394, 395, 398, 401, 404, 405, 407, 408, 409, 490, 510, 520, 530, 570, 580, 600, 701, 702, 703, 711, 712, 713.

ESL JOB SKILLS CERTIFICATE OF COMPLETION

The ESL program sequence develops English language competencies in non-native speakers that are closely linked to success in vocational, high school, Adult Basic Education, GED preparation and college credit programs. These skills are essential to effective performance and employment opportunities in the workplace.

Core Courses:

Core Courses:
ESL 399, ESL Literacy
ESL 400,Transition ESL
ESL 410, Beginning ESL 1
ESL 470, Intermediate ESL 2
ESL 480, Intermediate ESL 3
ESL 510, VESL: English for Work 1
ESL 520, VESL: English for Work 2

Electives:

ESL 038, 060, 130, 140, 392, 393, 394, 395, 398, 401, 404, 405, 407, 408, 409, 420, 430, 460, 490, 530, 570, 580, 600, 701, 702, 703, 711, 712, 713; HSS English 601; Counseling 303; Adult Basic Education 111.

ESL BEGINNING JOB SKILLS CERTIFICATE OF COMPLETION

This ESL Beginning Job Skills Certificate program sequence develops beginning English language competencies in non-native speakers that are closely linked to success in workplace settings. It prepares students for entry into the ESL Intermediate Job Skills Certificate program, the ESL Intermediate Communication Skills Certificate program and other continuing education programs (ABE, GED, High School Subjects). The ESL Beginning Job Skills Certificate program provides core courses that integrate all four communication skills (listening, speaking, reading, writing) focused around employability. In addition, elective courses emphasize language development using work-related vocabulary, materials and situations.

Core Courses:

FCL 200 FCL Literacy

ESL 399, ESL Literacy
ESL 400, Transition ESL
ESL 401, ESL/Family Literacy Beginning 1
ESL 405, ESL/Family Literacy Beginning 2
ESL 407, ESL/Family Literacy Beginning 3
ESL 410, Beginning ESL 1
ESL 420, Beginning ESL 2
ESL 430, Beginning ESL 3
ESL 510, VESL: English for Work 1
ESL 701, Academic ESL Beginning 1
ESL 702, Academic ESL Beginning 2
ESL 703, Academic ESL Beginning 3

Electives:

VESL 037, 038, 039, 060, 061, 062, 140, ESL 392, 398, 404, 600, Adult Basic Education 111, 121, Counseling 303



ESL BEGINNING A CERTIFICATE OF COMPLETION

This ESL Beginning A Certificate program sequence develops beginning English language competencies in non-native speakers that are closely linked to success in family, community workplace settings. It also prepares students for entry into the ESL Intermediate Certificate of Completion programs. The ESL Intermediate Communication Skills Certificate program and other continuing education programs (ABE, GED, High School Subjects). The ESL Beginning A Certificate program provides core courses that integrate all four communication skills (listening, speaking, reading, writing). These skills are essential to effective performance and employment opportunities in the workplace.

Some courses present similar content and competencies but the focus varies depending on the site and student need. Thus the titles and ticket numbers are different. Although 5 courses are listed on this certificate, a sequence of 2 core courses is required for the certificate plus an elective. Because students are placed into ESL classes based on either a placement test or a posttest, it is understood that a student entering and completing an ESL Beginning 2 class has acquired the skills taught in ESL Beginning 1. Thus, it is possible for a student to earn an ESL Beginning A Certificate of Completion with fewer than the required core hours.

Core Courses:

ESL 399, ESL Literacy

ESL 410, Beginning ESL 1

OR —

ESL 401, ESL/Family Literacy Beginning 1
—AND —

ESL 420, Beginning ESL 2

ESL 405, ESL/Family Literacy Beginning 2

Electives:

ESL 398

ESL BEGINNING B CERTIFICATE OF COMPLETION

This ESL Beginning B Certificate program sequence develops beginning English language competencies in non-native speakers that are closely linked to success in family, community workplace settings. It also prepares students for entry into the ESL Intermediate Certificate of Completion programs, the ESL Intermediate Communication Skills Certificate program, and other Continuing Education programs (ABE, GED, High School Subjects). The ESL Beginning B Certificate program provides core courses that integrate all four communication skills (listening, speaking, reading, writing). These skills are essential to effective performance and employment opportunities in the workplace.

Some courses present similar content and competencies but the focus varies depending on the site and student need. Thus, the titles and ticket numbers are different. Although 4 courses are listed on this certificate, a sequence of 2 core courses is required for the certificate. Because students are placed into ESL classes based on either a placement test or a posttest, it is understood that a student entering and completing an ESL Intermediate 1 class has acquired the skills taught in ESL Beginning 3. Thus, it is possible for a student to earn an ESL Beginning B Certificate of Completion with fewer than the required core hours.

Core Courses:

ESL 430 ,Beginning ESL 3

ESL 407, ESL/Family Literacy Beginning 3

—AND—

ESL 460, Intermediate ESL 1

—OR—

ESL 408, ESL/Family Literacy, Intermediate 1

Electives:

ESL 398, 570, 394

ESL INTERMEDIATE A JOB SKILLS CERTIFICATE OF COMPLETION

This ESL Intermediate A Job Skills Certificate of Completion program sequence further develops English language competencies in non-native speakers that are closely linked to success in workplace settings. It also prepares students for entry into other Continuing Education programs such as Adult Basic Education, GED, High School Subjects, vocational and college credit programs. The ESL Intermediate A Job Skills Certificate of Completion program provides core courses that integrate all four communication skills (listening, speaking, reading, writing) focused around employability. In addition, elective courses emphasize language development using work-related vocabulary, materials and situations. These skills are essential to effective performance and employment opportunities in the workplace. Because students are placed into ESL classes based on either a placement test or a posttest, it is understood that a student entering and completing an ESL Intermediate 2 class has acquired the skills taught in Intermediate 1. Thus, it is possible for a student to earn an ESL Intermediate A Job Skills Certificate of Completion with fewer than the required core hours.

Core Courses:

ESL 460, Intermediate ESL 1

ESL 408, ESL/Family Literacy, Intermediate 1

—AND—

ESL 470, Intermediate ESL 2

—OR—

ESL 409, ESL/Family Literacy, Intermediate 2

Electives:

VESL 510 OR VESL 038 OR ESL 530

ESL INTERMEDIATE B JOB SKILLS CERTIFICATE OF COMPLETION

This ESL Intermediate B Job Skills Certificate of Completion program sequence further develops English language competencies in non-native speakers that are closely linked to success in workplace settings. It also prepares students for entry into other Continuing Education programs such as Adult Basic Education, GED, High School Subjects, vocational and college credit programs. The ESL Intermediate B Job Skills Certificate of Completion program provides core courses that integrate all four communication skills (listening, speaking, reading, writing) focused around employability. In addition, elective courses emphasize language development using work-related vocabulary, materials and situations. These skills are essential to effective performance and employment opportunities in the workplace. Because students are placed into ESL classes based on either a placement test or a posttest, it is understood that a student entering and completing an ESL Intermediate 3 class has acquired the skills taught in Intermediate 2. Thus, it is possible for a student to earn an ESL Intermediate B Job Skills Certificate of Completion with fewer than the required core hours.

Core Courses:

ESL 470, Intermediate ESL 2

ESL 409, ESL/Family Literacy, Intermediate 2

VESL 520, English for Work 2

ESL 530, American English Pronunciation

Electives:

VESL 038 OR VESL 060



ESL BEGINNING ENHANCED CERTIFICATE OF COMPLETION

The ESL Beginning Enhanced Certificate program sequence develops beginning English language competencies in non-native speakers that are closely linked to success in family, community and workplace settings. It also prepares students for entry into the ESL Intermediate Certificate programs. The ESL Beginning Enhanced Certificate program provides core courses that integrate all four communication skills (listening, speaking, reading, writing), as well as elective specialty courses that emphasize development of specific skills. These skills are essential to effective performance and employment opportunities in the workplace.

Core Courses:
ESL 399, ESL Literacy
ESL 400, Transition ESL
ESL 401, ESL/Family Literacy, Beginning 1
ESL 405, ESL/Family Literacy, Beginning 2
ESL 407, ESL/Family Literacy, Beginning 3
ESL 410, Beginning ESL 1
ESL 420, Beginning ESL 2
ESL 430, Beginning ESL 3
ESL 701, Academic ESL, Beginning 1
ESL 702, Academic ESL, Beginning 2
ESL 703, Academic ESL, Beginning 3

Electives:

ESL 120, 392, 393, 394, 398, 404, 530, 570, 600 Adult Basic Education 111, 121

ESL INTERMEDIATE COMMUNICATION SKILLS CERTIFICATE OF COMPLETION

The ESL Intermediate Communication Skills Certificate program sequence further develops English language competencies in non-native speakers that are closely linked to success in family, community and workplace settings. It also prepares students for entry into other Continuing Education programs, such as Adult Basic Education, GED, High School Subjects, vocational and college credit programs. The ESL Intermediate Communication Skills Certificate program provides core courses that integrate all four communication skills (listening, speaking, reading, writing) as well as elective specialty courses that emphasize development of specific skills. These skills are essential to effective performance and employment opportunities in the workplace.

Core Courses:
ESL 460, Intermediate ESL 1
ESL 470, Intermediate ESL 2
ESL 480, Intermediate ESL 3
ESL 408, ESL/Family Literacy, Intermediate 1
ESL 409, ESL/Family Literacy, Intermediate 2
ESL 711, Academic ESL, Intermediate 1
ESL 712, Academic ESL, Intermediate 2
ESL 713, Academic ESL, Intermediate 3

Electives:

ESL 120, 392, 393, 394, 395, 398, 490, 530, 570, 580, 600 Adult Basic Education 121

ACADEMIC ESL BEG A CERTIFICATE OF COMPLETION

This combination of courses is designed to help students begin to 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 701, Academic ESL Beginning 1 ESL 702, Academic ESL Beginning 2

ACADEMIC ESL BEG B CERTIFICATE OF COMPLETION

This combination of courses is designed to help students begin to 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 701, Academic ESL Beginning 1 ESL 702, Academic ESL Beginning 2

Choose 1:

ESL 398, Community Learning Center

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 038, Business Skills

ESL 060, VESL Health Services

ESL 120, ESL Civics

ESL 140, VESL Childcare Educators

ESL 392, Writing and Computers

ESL 394, ESL Writing A

ESL 398, Community Learning Center

ESL 530, American English Pronunciation

ESL 570, Conversation 1

ESL 600, Personal Discovery

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 038, Business Skills

ESL 060. VESL Health Services

ESL 120, ESL Civics

ESL 130, ESL Topics

ESL 140, VESL Childcare Educators

ESL 392, Writing and Computers

ESL 395, ESL Writing B

ESL 398, Community Learning Center

ESL 530, American English Pronunciation

ESL 580, Conversation 2

ESL 600, Personal Discovery

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 404, ESL/Family Literacy with Computers

ESL 405, ESL/Family Literacy Beginning 2

ESL 420, Beginning ESL 2

ESL 702, Academic ESL Beginning 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 510, VESL: English for Work 1

Choose 1:

ESL 398, Community Learning Center

ESL 038, Business Skills

ESL 060, VESL Health Services

ESL 120, ESL Civics

ESL 140, VESL Childcare Educators

ESL 392, Writing and Computers

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 600, Personal Discovery

ESL 490, Advanced Grammar Review

ESL 408, ESL/Family Literacy Intermediate 1

ESL 460, Intermediate ESL 1

ESL 711, Academic ESL Intermediate 1

ESL 404, ESL/Family Literacy with Computers

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

ESL 400, Transition ESL

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 400, Transition ESL

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 404, ESL/Family Literacy with Computers

ESL 410, Beginning ESL 1

Choose 1:

ESL 404, ESL/Family Literacy with Computers

ESL 405, ESL/Family Literacy Beginning 2

ESL 420, Beginning ESL 2

ESL 701, Academic ESL Beginning 1

ESL 702, Academic ESL Beginning 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 404, ESL/Family Literacy with Computers

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 404, ESL/Family Literacy with Computers

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 404, ESL/Family Literacy with Computers

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

ESL 038, Business Skills

ESL 060, VESL Health Services

ESL 120, ESL Civics

ESL 140, VESL Childcare Educators

ESL 392, Writing and Computers

ESL 394, ESL Writing A

ESL 398, Community Learning Center

ESL 530, American English Pronunciation

ESL 570, Conversation 1

ESL 600, Personal Discovery



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 404, ESL/Family Literacy with Computers

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 404, ESL/Family Literacy with Computers

ESL 409, ESL/Family Literacy Intermediate 2

ESL 470, Intermediate ESL 2

ESL 480, Intermediate ESL 3

Choose 1:

ESL 038, Business Skills

ESL 060, VESL Health Services

ESL 120, ESL Civics

ESL 140, VESL Childcare Educators

ESL 392, Writing and Computers

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 600, Personal Discovery

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

NURSING AIDES, ORDERLIES, ATTENDANTS CERTIFICATE OF COMPLETION

In the Nursing Aides, Orderlies, Attendants Certificate students learn basic skills for 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

Elective

Vocational Health 892, Nursing Boot Camp



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 122, Introduction to Keyboarding and Basic Windows

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

Vocational Business 400, Employability Skills

Flective

Vocational Business 123, Introduction to Computer Software Applications

GENERAL OFFICE CLERK CERTIFICATE OF COMPLETION

This series of courses prepares students for entry-level general office clerk positions in a business environment. This program provides an open-entry/open-exit instructional format that allows students to attain knowledge of basic level office concepts, procedures, and technology commonly used in an office setting. Students learn introduction to keyboarding, computer software applications, general office skills, customer service and telephone techniques, and soft skills. This certificate provides the foundation for preparing students in entry level jobs and careers in the business environment.

Core Courses:

Vocational Business 118, Introduction to Windows

Vocational Business 122, Introduction to Keyboarding and Basic Windows

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

Elective:

Vocational Business 301, Business 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 244, Introductin to Databases Using Microsoft Access

Vocational Business 245, Introductin to Desktop Publishing using Microsoft Publisher

Vocational Business 304, Introduction to Electronic Presentations Using PowerPoint

Vocational Business 400, Employability Skills

Elective

Vocational Business 123, Introduction to Computer Software Applications

MAINTENANCE & REPAIR WORKERS CERTIFICATE OF COMPLETION

This series of courses provides students with skills in maintenance, repair, upgrading, and networking of personal computers. The open-entry/open-exit instructional format emphasizes functional operations of hardware and software components, hands-on experience with upgrading and repair of computers, setting up home and small office networks, and troubleshooting most technical problems.

Core Courses:

Vocational Business 574, Computer Basics: Hardware and Software Vocational Business 450, Hardware and Software A+ Preparation, Review, Practice

Vocational Business 576, Computer Basics: Systems and Networking Essentials

Elective

Vocational Business 400, Employability Skills



ADULT BASIC EDUCATION (ABE)

Adult Basic Education 009 Adult Basic Education - Math

Credit(s): 5-20 Class Hours: 72-288

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: 40

Provides the second of a two-part leadership course in which students apply leadership techniques in the workplace, home, school, and the community. Students will increase their mastery of basic skills through intensive, interactive, studentcentered activities. The course requires participation in the four areas of language acquisition: reading, writing, listening, and speaking. Recommended for ABE and ESL Intermediate 1, 2, or 3 or above students. Open Entry/Open Exit.

Adult Basic Education 019 Student Leadership Conference

Credit(s): 0 Class Hours: 1-8

> Designed to give all participants a working knowledge of subject matter relevant to becoming an effective community leader. Guest speakers from public and private sectors will present information using lecture and/or interactive activities. Participants will be introduced to proper methodology in conducting an effective conference. At least one conference will be conducted each semester.

Adult Basic Education 022 **Directing & Facilitating a Conference**

Credit(s): 0

Class Hours: 40

Designed to give students hands-on training and experience in all aspects of directing and facilitating a conference. Participants will be trained for and assigned to actual staff duties in the following areas: Director Intern, Facilitator, Co-Facilitator, and Registrar. The course consists of seven training sessions, an actual conference, and one follow-up session. Recommended for ABE and Intermediate ESL or above students. Open Entry/Open Exit.

Adult Basic Education 044 Leadership Basics Part 1

Credit(s): 0 Class Hours: 40

> Provides the first of a two-part leadership course in which students apply leadership techniques in the workplace, home, school, and the community. Students will increase their mastery of basic skills through intensive, interactive, studentcentered activities. The course requires participation in the four areas of language acquisition: reading, writing, listening, and speaking. Recommended for ABE and ESL Intermediate 1, 2, or 3 or above students.

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 060 Vocational Academic Skills Training

Credit(s): 0

Class Hours: 90-180

Allows students to learn and/or improve basic academic skills in the areas of language arts, reading, and numerical skills. Introduces students to computer usage, terminology, keyboarding, and the basic work processing and spreadsheet office skills computer programs. Open Entry/ Open Exit.

Adult Basic Education 111 Spanish Literacy for Adults

Credit(s): 0

Class Hours: 240-480

Assists native Spanish-speaking students in acquiring literacy in Spanish in order to facilitate the transition to beginning ESL courses. Focuses on basic reading and writing skills, including phonics decoding and encoding skills, as well as classroom, parenting and community coping skills. Recommended for non-literate native speakers of Spanish. Taught in Spanish. Open Entry/Open Exit.

Adult Basic Education 121 ABE Family Literacy

Credit(s): 0

Class Hours: 72

Utilizes various basic skills activities to enhance family literacy learning and addresses the four components of family literacy: adult literacy skills development, parent education, emergent literacy needs of children, and parent-child interactive literacy activities. Open Entry/Open Exit.

Adult Basic Education 137 Topics in Adult Basic Education

Credit(s): 0 - 5 Class Hours: Variable

> Specialized courses on topics related to the needs of students in Adult Basic Education.

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: 4-60

Designed to assist the student with appropriate educational placement and /or to provide career interest and guidance information as a result of individual and group testing. Open Entry/Open Exit.

ENGLISH AS A SECOND LANGUAGE (ESL)

English As a Second Language 038 **VESL: Business Skills**

Credit(s): 0

Class Hours: 216

Prepares limited English-speaking students for entry-level business positions. Emphasizes oral communication skills, business vocabulary, and technical reading. Recommended for students in Beginning ESL 3 and above. Open Entry/ Open Exit.

English As a Second Language 060 **VESL: Health Services**

Credit(s): 0

Class Hours: 216

A basic language skills course to prepare limited English-speaking students for entry level positions in the health care field. Focuses on medical vocabulary, skills and technical reading with special emphasis on oral communication. Recommended for students in Beginning ESL 3 and above. Open Entry/Open Exit.



English As a Second Language 120 **ESL Civics**

Credit(s): 0 Class Hours: 144

> Provides development in listening, speaking, reading and writing English within the context of history and government in preparation for the United States Citizenship examination. (Recommended for students in Beginning ESL 3 and above.). Open Entry/Open Exit.

English As a Second Language 130 **ESL Topics**

Credit(s): 0 - 5 Class Hours: Variable

> Specialized course on topics related to the needs of students in English as a Second Language. 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 pre- and 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 400 **Transition ESL**

Credit(s): 0

Class Hours: 216

Emphasizes listening comprehension and beginning oral production in basic communication. 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 404 **ESL/Family Literacy with Computer**

Credit(s): 0 Class Hours: 216

Provides ESL/Family Literacy students the opportunity to learn very basic computer literacy skills and to utilize computerbased instruction to expand their English language development. This course can be taken by all beginning ESL/Family Literacy students. Open Entry/Open Exit.

English As a Second Language 405 **ESL/Family Literacy Beginning 2**

Credit(s): 0 Class Hours: 216

> Emphasizes comprehending simple conversations, communicating survival needs, reading phrases and simple sentences, and performing communicative written tasks. Utilizes various language-based activities to enhance family language learning with adults and children reading together. Develops parenting skills using language appropriate for this level. This course includes the ESL Beginning 2 curriculum. Open Entry/Open Exit.

English As a Second Language 407 **ESL/Family Literacy Beginning 3**

Credit(s): 0 Class Hours: 216

> Emphasizes comprehending, participating in, and sustaining simple conversations, reading short passages with understanding, and producing short written passages. Utilizes various language-based activities to enhance family language learning with adults and children reading together. Develops parenting skills using language appropriate for this level. This course includes the ESL Beginning 3 curriculum. Open Entry/Open Exit.

English As a Second Language 408 ESL/Family Literacy Intermediate 1

Credit(s): 0 Class Hours: 216

> Emphasizes creative oral language activities, initial critical thinking skills in reading comprehension, and written tasks which begin to focus on academic skills. This course includes the ESL Intermediate 1 curriculum with an additional family literacy focus and component. Utilizes various language-based activities to enhance family language learning. Develops parenting skills using language appropriate for this level. 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

Credit(s): 0 Class Hours: 216

Emphasizes listening comprehension and beginning oral production of simple conversations, reading of practiced words and phrases, and prewriting tasks. This is the second course in the Continuing Education ESL continuum. Open Entry/Open Exit.

English As a Second Language 420 Beginning ESL 2

Credit(s): 0 Class Hours: 216

Emphasizes comprehending simple conversations, communicating survival needs, reading phrases and simple sentences, and performing communicative written tasks. This is the third course in the Continuing Education ESL continuum. Open Entry/Open Exit.

English As a Second Language 430 Beginning ESL 3

Credit(s): 0 Class Hours: 216

Emphasizes comprehending, participating in and sustaining simple conversations, reading short passages with understanding, and producing short written passages. This is the fourth course in the Continuing Education ESL continuum. Open Entry/ Open Exit.

English As a Second Language 460 Intermediate ESL 1

Credit(s): 0 Class Hours: 216

Emphasizes creative oral language activities, initial critical thinking skills in reading comprehension, and written tasks which begin to focus on academic skills. This is the fifth course in the Continuing Education ESL continuum. Five High School elective credits may be granted if student passes the 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 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, productive and receptive skills as they relate to sound discrimination, sound inventory, stress, intonation, linking, prominence, and rhythm. The course aims to help students to understand English and to 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 conversation 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. Further analysis of conversation strategies. Includes verbal and nonverbal communication within large and small groups or between two people. 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 600 Personal Discovery for Employability

Credit(s): 0 Class Hours: 72

Introduces non-native English speakers to skills that will enhance self discovery, life choices, and employability skills. This course is designed for students who test at Intermediate 1 level or above on the ESL placement or pre/post test. Open Entry/Open Exit.

English As a Second Language 701 Academic ESL Beginning 1

Credit(s): 0 Class Hours: 216

First of the six level academic ESL courses with an emphasis on vocabulary development and basic oral communication utilizing the targeted vocabulary. Extensive oral practice of the scripted dialogue to refine pronunciation and intonation to produce comprehensible oral communication. Provides multi-skills practice in a contextualized format that integrates listening, speaking, reading, and writing in preparation for academic success. Open Entry/Open Exit.



English As a Second Language 702 **Academic ESL Beginning 2**

Credit(s): 0 Class Hours: 216

Second of the six level academic ESL courses with continued vocabulary development, basic oral communication practice and the introduction and practice of basic grammatical structures of English. Reading development skills will be introduced and practiced. Provides multi-skills practice in a contextualized format that integrates listening, speaking, reading, and writing in preparation for academic success. Open Entry/Open Exit.

English As a Second Language 703 Academic ESL Beginning 3

Credit(s): 0 Class Hours: 216

> 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 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 multi-skills 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 posttest for this class with 70% or better. Open Entry/ Open Exit.

HEALTH & SAFETY (SAFE)

Health & Safety 850 **Emergency Planning and Safety**

Credit(s): 0 Class Hours: 30

> Adheres to emergency planning and safety guidelines of appropriate federal, state and county authorities, specifically as it applies to the state of California. This course includes basic guidelines for dealing with emergency situations and handling safety issues arising from natural or man-made causes such as earthquakes, brush fires, home/building fires, freeway travel safety, floods and landslides. Open Entry/Open Fxit.

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.

Health & Safety 878 **Healthy Moves for Healthy Lives**

Credit(s): 0 Class Hours: 72

Teaches the importance of fitness for improving energy, mood and physical health. Emphasizes assessment, goal setting, physical activity, and building social support. Techniques in motor movements, coordination, balance, strengthening, stretching and relaxation will be introduced. Open Entry/Open Exit.

Health & Safety 879 **Living Healthy Lives**

Credit(s): 0 Class Hours: 72

> Provides basic information on nutrition and fitness, weight management, diabetes, heart disease, cancer, mental health, substance abuse, sexual education, AIDS and STD's, and pregnancy. Open Entry/ Open Exit.

Health & Safety 898 **Substance Abuse**

Credit(s): 0 Class Hours: 30-72

> Provides instruction and discussion on the following components: addictive substances, physiology of addiction, stages of addiction, coping strategies, family systems, cognitive/behavioral principles, family relationships and relapse prevention. Open Entry/Open Exit.

Health & Safety 900 **Health & First Aid Topics**

Credit(s): 0 - 5 Class Hours: Variable

> Specialized courses on topics related to the needs of students in Health/First Aid.

HIGH SCHOOL SUBJECTS (HSS)

High School Subjects 010 Learning Skills & Strategies

Credit(s): 5 Class Hours: 72

> Provides individualized and direct group instruction to improve learning strategies and basic reading, writing, and mathematics skills. Equips 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. Information will be presented in academic format, but students will be required to demonstrate mastery through participation in student centered, hands-on activities. This course consists of ten stand-alone lessons. Open to HSS students.



High School Subjects 092 Leadership Basics, Part 2

Credit(s): 5 Class Hours: 72

Provides the student with ten stand-alone leadership training sessions. Continues the leadership training begun in Part 1. Information will be presented in academic format, but students will be required to demonstrate mastery through their participation in student centered, hands-on activities. Open to all HSS students.

High School Subjects 093 Student Leadership Conference Series

Credit(s): 0 Class Hours: 1-8

Designed to give all participants a working knowledge of subject matter relevant to becoming an effective community leader. Guest speakers from public and private sectors will present information using lecture and/or interactive activities. Participants will be introduced to proper methodology in conducting an effective conference. At least one conference will be conducted each semester.

High School Subjects 094 Directing & Facilitating a Conference

Credit(s): 5 Class Hours: 72

Designed to give students hands-on training and experience in all aspects of directing and facilitating a conference. Participants will be trained for and assigned to actual staff duties in the following areas: Director Intern, Facilitator, Co-Facilitator, and Registrar. The course consists of seven training sessions, an actual conference, and one follow-up session. Recommended for ABE and Intermediate ESL or above students.

High School Subjects 095 Basic Skills Supervised Tutoring

Credit(s): 0

Class Hours: Arranged.

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 144 Topics in High School Subjects

Credit(s): 0 - 5

Class Hours: Variable.

Varies according to topic. Specialized courses on topics related to the needs of students in High School Subjects. 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 written/oral communication. Compensatory strategies adn technology will be emphasized.

High School Subjects 338 Workforce Preparation

Credit(s): 5

Class Hours: 72

Provides instruction, demonstration, identification, and discussion of topics that are critical for success in the 21st century workplace. Open Entry/Open Exit.

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 602 Music Theory 2

Credit(s): 5 Class Hours: 72

Provides a beginning level music theory course that introduces students to the vocabulary and principles of music. Students will use skills learned in Music Theory 1 for further studies of scales and intervals. Emphasis will also be given to beginning piano study.

HS Subjects - Arts 603 Music Theory 3

Credit(s): 5 Class Hours: 72

Offers an intermediate music theory course. Builds skills learned in Music Theory 1 and 2. The primary emphasis will be on triads, figured bass and inversions. Students will also focus on intermediate piano instruction and sight singing.

HS Subjects - Arts 604 Music Theory 4

Credit(s): 5 Class Hours: 72

Offers an intermediate music theory course that builds on the skills mastered in Music Theory 1-3. The primary emphasis will be on the principles of harmonization. Students will continue intermediate piano studies and sight singing practice.

HS Subjects - Arts 605 Music Theory 5

Credit(s): 5

Class Hours: 72

Offers an advanced level music theory course that builds on the skills mastered in Music Theory 1-4. The primary emphasis will be on melodic and harmonic principles. Student composition will be of major importance. Students will continue with piano instruction and sight singing practice.

HS Subjects - Arts 606 Music Theory 6

Credit(s): 5 Class Hours: 72

Offers an advanced level music theory course that continues with the primary focus on composition. Students will be given instruction in writing for different instruments. They will continue intermediate/advanced piano studies and sight singing practice.



HS Subjects - Arts 701 Dance Theory and Practice 1

Credit(s): 5 Class Hours: 72

> Provides opportunities for students to begin in-depth studies in one or more areas of concentration in dance. The instruction provides a variety of learning opportunities in dance in which students learn the language of dance and move into innovative and challenging experiences.

HS Subjects - Arts 702 Dance Theory and Practice 2

Credit(s): 5 Class Hours: 72

> Expands opportunities for students to continue in-depth studies in one or more areas of concentration in dance. The instruction supports extended exposure to opportunities in dance in which students practice and refine the language of dance and move into the development of innovative and creative expression.

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 - Arts 845 Drawing & Painting 1

Credit(s): 5

Class Hours: 72

Provides a beginning level studio course which introduces students to the world of visual art. Students will learn to draw and use a variety of materials and techniques to explore the elements of arts and principles of design. Primary emphasis will be on drawing and creating works of art. Open Entry/Open Exit.

HS Subjects - Arts 846 Drawing & Painting 2

Credit(s): 5 Class Hours: 72

> Provides an intermediate level studio course to introduce students to the world of visual arts with emphasis on learning to paint and create original art works. Employs materials and techniques as they explore the elements of arts and principles of design. Recommended for those who have completed Drawing and Painting 1. Open Entry/Open Exit.

HS Subjects - Arts 847 Drawing & Painting 3

Credit(s): 5 Class Hours: 72

> Provides an advanced level studio course to explore the world of visual art and to expand on techniques and the elements of art and principles of design. Emphasis will be on increasing drawing and painting skills and exploring new ways to create original artworks. Recommended for those who have completed Drawing and Painting 1 and 2. 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 055 English A

Credit(s): 5 Class Hours: 72

> Provides a comprehensive English course which includes lessons in: grammar, capital letters and punctuation, understanding reference material, vocabulary, reading literature and short stories, writing and web based instruction. Open Entry/Open Exit.

HS Subjects - English 056 English B

Credit(s): 5 Class Hours: 72

> Provides a comprehensive English course which includes lessons in: grammar, word usage, building and using sentences, reading directions, poetry and novel analysis. Open Entry/Open Exit.

HS Subjects - English 057 English C

Credit(s): 5

Class Hours: 72

Provides a comprehensive English course which includes lessons in: parts of speech, grammar, reading literature and expository text, short story analysis, and writing to include web-based instruction. Open Entry/Open Exit.

HS Subjects - English 058 English D

Credit(s): 5 Class Hours: 72

> Provides a comprehensive English course which includes lessons in: topic sentences, transitional devices, paragraph structure development and organization, the writing process, reading literature and expository text, vocabulary, drama, and novels. Open Entry/Open Exit.

HS Subjects - English 063 English Through Literature 11A

Credit(s): 5 Class Hours: 72

> Integrates language arts skills and reading analysis, interpretation, and writing through a literature based curriculum. Survey course which allows the student an opportunity to study some of the central works in American literature. (Recommended for students who completed 10th grade English or equivalent). Open Entry/Open Exit.

HS Subjects - English 064 **English Through Literature 12A**

Credit(s): 5 Class Hours: 72

> Integrates the language arts skills of reading, analysis, interpretation, and writing through world literature. This course allows the student to study some central works in world literature. Recommended for students who have completed 11th grade English or equivalent. 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 072 Poetry

Credit(s): 5 Class Hours: 72

Introduces poetry as a literary form. Examines the fundamentals of poetry through the reading of poetry of literary quality. 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

Prerequisite: COMPOSITION 1

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 095 Spelling Techniques

Credit(s): 5 Class Hours: 72

Provides students with a multi-sensory approach to techniques in improving English word spelling skills. Emphasizes phonetic structures and sight word practice using workbooks, computer software, audio tapes, and a battery-operated spell checker. 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 601 American English Pronuniation C

Credit(s): 5 Class Hours: 72

Improves American English pronunciation. Intended for non-native English speakers. Uses individualized course format to offer 5 credits for High Schools Subjects. Recommended for students enrolled in the high school subjects program. 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: 128-160

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: 128-168

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 1 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. 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 and formulas, equations, ratios, and proportions. Provides learning activities which allow for remediation of difficulties and mastery of necessary skills. 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, and the laws of the sign, 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 co-ordinate systems, graphing of linear equations, simultaneous equations of fractions, ratio, proportion, 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, powers, roots and radicals. Recommended for students who have completed ten units 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, 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 units 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 and trigonometry, circles, areas of polygons and circles, and surface area and volume. Recommended for students who have completed Geometry A or equivalent. Open Entry/Open Exit.

HS Subjects - Math 170 Introduction to the Metric System

Credit(s): 5

Class Hours: 72

Provides and understanding of basic metric units, computation of metric units, and conversation in the English metric system. 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 buying or renting a car, car insurance, automobile expenses, buying or renting a home, utilities expenses, paying taxes, real estate, and sales taxes. Open Entry/Open Exit.

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 195 Chemistry 1

Credit(s): 5 Class Hours: 72

Provides students with a first semester course in chemistry. Covers structure of matter and changes that substances undergo. Basic study covers atomic and molecular structure, chemical bonds, conservation of matter and stoichiometry, and gases and their properties. Laboratory work is required.

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.

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 741 Spanish for Spanish Speakers

Credit(s): 5 Class Hours: 72

> Provides instruction in pronunciation, grammar, vocabulary development (cognates, suffixes, idiomatic expressions), writing techniques, and an introduction to Hispanic culture. This course is for native Spanish speakers. Open Entry/Open Exit.

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 749 Introduction to Word Processing Using MS Word

Credit(s): 5 Class Hours: 72

Provides introductory instruction to word processing techniques using the personal computer. Includes the creating, formatting, editing, saving, and printing of simple documents. Uses MS Word software. Designed for students who can type by touch. (See also Vocational Business 260). Open Entry/Open Exit.

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 - Other 875 First Aid

Credit(s): 1 Class Hours: 15

> Provides students with a general knowledge of basic first aid instructions, procedures and the handling of emergency procedures. 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 district reading proficiency examination. Open Entry/Open

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 Fxit.

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

HS Subjects - Social Sciences 221 Psychology

Credit(s): 5 Class Hours: 72

> Provides students with knowledge of the basic principles of psychoanalysis, behaviorism, the interpersonal model, humanism, existentialism and phenomenology as well as other concepts applied to the self. Open Entry/Open Exit.

HS Subjects - Social Sciences 222 Government 1: U.S. Federal Government and Politics

Credit(s): 5 Class Hours: 72

Examines the development of the federal government from colonial times, the structure of the contemporary government, and the economic, social and political influence on American citizens and their civic duties and responsibilities. Open Entry/ Open Exit.

HS Subjects - Social Sciences 223 Government 2: State and Local Government

Credit(s): 5 Class Hours: 72

Examines the diversity of California's geography, economy, and population as well as knowledge of California's history and constitutional development. Explores voters' roles in state and local politics. Open Entry/Open Exit.



HS Subjects - Social Sciences 224 World Geography 1A

Credit(s): 5 Class Hours: 72

Provides a basic foundation for understanding physical geography and the cultural and economic variables in relationship with the earth and its history. Introduces Northern America, Latin America, Europe, and Russia. Includes geography skills such as map reading, interpretation of graphs and diagrams, and map identification. Open Entry/Open Exit.

HS Subjects - Social Sciences 225 World Geography 1B

Credit(s): 5 Class Hours: 72

Provides an overview of certain areas of the world in terms of their physical, cultural, historical and economic geography. Introduces North Africa, the Middle East, Africa south of the Sahara, the Asian Region, and the Pacific World. Includes geography skills such as map reading, interpreting graphs, and analyzing data from a chart. Open Entry/Open Exit.

HS Subjects - Social Sciences 228 World History

Credit(s): 5 Class Hours: 72

Offers the student a chronological understanding of world history in a sequence of events from the time before hominids became fully human, to the introduction to the new millennium. Addresses culture and geography in the context of world history. Open Entry/Open Exit.

HS Subjects - Social Sciences 231 Modern World History 1

Credit(s): 5 Class Hours: 72

Provides students with a study of the major events that shaped the modern world, from the eighteenth century through the First World War. Students will trace the rise of democratic ideas and develop an understanding of the historical roots of current world issues.

HS Subjects - Social Sciences 232 Modern World History 2

Credit(s): 5 Class Hours: 72

Provides students with a study of the major events that shaped the modern world, from the end of the First World War to the present. Students will develop an understanding of current world issues and relate them to their historical, geographic, political, and economic contexts.

HOME ECONOMICS (HOMEC)

Home Economics 520 HSS Consumer Education

Credit(s): 0.5 - 7.5 Class Hours: 24 minimum

(formerly Consumer Education Proficiency Preparation) 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.

PARENT EDUCATION (PRNT)

Parent Education 150 Parent Education Topics

Credit(s): 0.5

Class Hours: Variable

Specialized courses on topics related to the needs of students in Parent Education.

Parent Education 527 Pre-Kindergarten "Parent and Me" Training

Credit(s): 0 Class Hours: 132

Provides the opportunity for parents and others to learn the importance of providing appropriate early childhood experiences and preparing children for a successful kindergarten experience. Topics include school readiness, how to transform children's everyday world into an exciting learning environment, and how to stay positively involved in children's education. Open Entry/Open Exit.

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 532 Effective Parenting

Credit(s): 0 Class Hours: 132

Provides parents with an overview of child development milestones. Includes varied strategies for problem solving, effective communication, positive discipline and child-centered activities. Raises awareness of substance abuse, gangs, suicide and peer pressure. Encourages parents to take an active role to ensure the academic success, health and safety, and social well being of their children. Open Entry/Open Exit.

Parent Education 533 Parent Education

Credit(s): 0 Class Hours: 45

Provides information and a discussion forum related to current and relevant parent education topics, issues, and/or concerns. Students will use teamwork, research techniques, decision making, and communication skills to enhance learning. Open Entry/Open Exit.

Parent Education 544 Preparation for Childbirth

Credit(s): 0 Class Hours: 36

Provides prospective parents with information regarding the intellectual, physical, and emotional components of the birth process. Emphasizes exercise techniques for relaxation, labor, birth, and post-natal care. 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: 150-300

Provides pre and post testing and individualized prescriptive instruction in preparation for the GED test. Covers test-taking strategies and the fundamentals of social studies, mathematics, science, reading, and writing. Open Entry/Open Exit.



SUBSTANTIAL DISABILITIES (SSD)

Substantial Disabilities 200 Issues and Concepts for Adults With Developmental Disabilities

Credit(s): 0 Class Hours: 180

> Provides information related to topics of everyday interest and importance to adults with developmental disabilities. Examines issues of relevance and provides a forum for discussion and exploration of various topics, such as current events, cultural awareness and health. Open Entry/Open Exit.

Substantial Disabilities 350 Signing Exact English for Parents of Deaf Children

Credit(s): 0

Class Hours: 45-63

Designed as an introductory course to teach Signing Exact English and the manual alphabet. Open Entry/Open Exit.

Substantial Disabilities 400 Developmentally Disabled Adults Job Coach Training

Credit(s): 0

Class Hours: 180-244

Job Coach instruction/training to assist developmentally disabled adults. Students will acquire the necessary skills to instruct/ train developmentally disabled clients. Open Entry/Open Exit.

Substantial Disabilities 495 Personal Development & Grooming for Developmentally Disabled Adults

Credit(s): 0

Class Hours: 62-91

Assists developmentally disabled adults in acquiring skills necessary to attain interpersonal relationships, social behavioral, grooming, and physical fitness skills. Students will work in groups and independently toward grooming awareness and physical fitness activities. Exercises are tailored to students abilities.

Substantial Disabilities 781 **Basic Academic Skills for Adults With Developmental Disabilities**

Credit(s): 0

Class Hours: 180-244

Assists developmentally disabled adults in acquiring knowledge of basic academic skills pertinent to economic and social environment. Open Entry/Open Exit.

Substantial Disabilities 787 Employment Preparation for Adults With Developmental Disabilities

Credit(s): 0 Class Hours: 180

Assists adults with developmental disabilities to attain a higher functional level for the purpose of employment. Teaches skills necessary to establish and maintain productive interpersonal relationships, social interaction, and etiquette related to home, community, and vocational settings. 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.

Substantial Disabilities 792 Handicapped Adults Topics

Credit(s): 0 - 5 Class Hours: Variable

> Specialized courses on topics related to the needs of students in Handicapped Eduation.

Substantial Disabilities 793 Physical Activities for Adults With Developmental Disabilities

Credit(s): 0 Class Hours: 180

> Assists adults with developmental disabilities to acquire skills necessary to maximize physical capabilities through physical activities tailored to their abilities. Students will be guided through independent and group activities to develop fitness awareness. Open Entry/Open Exit.

VOCATIONAL - ASSEMBLY (VASSM)

Vocational - Assembly 100 **Topics in Assembly and Packaging**

Credit(s): 0

Class Hours: Variable

Varies according to topic. Specialized courses on topics related to the needs of the students in the assembly and packaging program.

VOCATIONAL - BUSINESS (VBUS)

Vocational - Business 100 Topics in Retail Sales

Credit(s): 0

Class Hours: Variable

Varies according to topic. Specialized courses on topics related to the needs of students in the retail sales program.

Vocational - Business 109 Introduction to Desktop Video Editing **Using Adobe Premiere**

Credit(s): 0 Class Hours: 60

> Provides introductory instruction on desktop digital video production and editing using industry standard software. Includes capturing, importing, assembling, and editing video, audio and still images. Designed for students who have completed an introductory computer course. Open Entry/Open Exit.

Vocational - Business 117 **Introduction to Document Processing Using Adobe Acrobat**

Credit(s): 0 Class Hours: 30

> Introduces students to portable document formats created with Adobe Acrobat. Students learn how to convert simple and complex documents to PDF files; navigate, edit, and annotate PDF files; and distribute PDF files via the Internet. Open Entry/Open Exit.

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 122 Introduction to Keyboarding and Basic Windows

Credit(s): 5 Class Hours: 72

Provides introductory instruction for keyboarding by touch and learning Microsoft Windows. Introduces students to Windows: navigation, views, commands, file management, desktop customization and simple Accessory programs, such as WordPad, Character Map, Calculator and Paint. Scanning and working with simple graphics is also explored. 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 200 Topics in Business Skills

Credit(s): 0

Class Hours: Variable

Varies according to topic. Specialized courses on topics related to the needs of students in the Business Skills program.

Vocational - Business 242 Introduction to Vector Graphics Using Adobe Illustrator

Credit(s): 0 Class Hours: 60

Provides introductory instruction in computer graphics and design. Includes basic design concepts, use of illustration tools, and modification of art work and text layout. Designed for students who have completed a basic computer operations course or equivalent. 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 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. 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 - FOOD (VFOOD)

Vocational - Food 100 **Topics in Food Service**

Credit(s): 0

Class Hours: Variable

Varies according to topic. Specialized courses on topics related to the needs of the students in the Food Services program.

VOCATIONAL - GUIDANCE (VGUID)

Vocational - Guidance 277 **Emerging Careers - Take Aim**

Credit(s): 0 Class Hours: 1-10

> Acquaints students with emerging occupational choices and career facts relevant to employment planning and career development. Emphasis on integrating selfknowledge and career choices. Provides individualized and group instruction. Open Entry/Open Exit.

Vocational - Guidance 302 Job Development Skills

Credit(s): 0

Class Hours: 1-10

Instructs, demonstrates, and identifies the techniques of successfully getting a job. Provides individualized instruction to meet the needs of each student. Open Entry/ Open Exit.

VOCATIONAL - HEALTH (VHLTH)

Vocational - Health 100 **Topics Health Services**

Credit(s): 0

Class Hours: Variable

Varies according to topic. Specialized courses on topics related to the needs of the students in the health services program.

Vocational - Health 892 Nursing Boot Camp

Credit(s): 0

Class Hours: 36-72

Designed to improve the basic skills in reading and writing for students preparing to enter the nursing program.

Vocational - Health 895 **Paraprofessional Mental Health Worker**

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. Earns 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 - HOSPITALITY (VHOSP)

Vocational - Hospitality 100 **Topics in Hospitality Programs**

Credit(s): 0

Class Hours: Variable

Varies according to topic. Specialized courses on topics related to the needs of the students in the hospitality program.



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, Maria (2009)

DSPS/Social Services

B.A. Cal Poly Pomona,

MSW, California State University, Long Beach

Argo, Rose (1996)

Professor, Fire Technology

B.A., M.A., California State University, Long Beach

Bales, Terry W. (1971)

Professor, TV/Video Communications

B.A., M.A., University of Southern California

Bass, Stacey (2006)

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B.S.N., Loma Linda University

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Bassett, Dana (2001)

Professor, English

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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

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M.S., California State University, Long Beach

M.B.A., University of California, Irvine

Blake, Phyllis Cartledge (1985)

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Blake, Sherri (2011)

Counseling

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B.S., California State University, Fullerton

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Bobp, Mary Ellen (1996)

Librarian

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Bowers, Cherie (2005)

Associate Professor, Mathematics

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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

Brown, Myrond B. (1974)

Professor, Kinesiology

A.A., Antelope Valley Community College

B.S., California State University, Fullerton

M.A., Azusa Pacific University

Brown, Sharon E. (1999)

Professor, Art

B.A., Limestone College

M.V.A., Georgia State University

Ed.D., University of Houston

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.N., Ph.D, Purdue University

Cannon, Chris (2011)

Assistant Professor. Theatre Arts

B.A. Southeastern University, M.F.A. University of Virginia

Canzona, Paula (1998)

Counseling

B.S., University of Redlands

M.A., California State University, Dominguez Hills

Carrera, Cher (2002)

Professor, Mathematics

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

Chaplin, Elyse K. (2011)

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B.A. York University, Toronto, Ontario, Canada M.A. The George Washington University, DC Ph.D. University of Toronto

Chitlik, Judy-Anne (1980)

Assistant Vice Chancellor, RSCCD

B.A., M.A., California State University, Fullerton

Coffman, Jodi (2000)

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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, Monica (2006)

Coordinator, American Sign Language Program, Deaf & 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

Comeau, Carol (1981)

Dean, Professor, Science, Math & Health Sciences R.N., St. Luke's Hospital School of Nursing

B.S.N., California State University, Fullerton

M.S.N., California State University, Los Angeles

Conner, M. Patricia (1992)

Tutorial Specialist/Learning Center

B.A., University of Minnesota

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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, Physical 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 R.N.

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)

Adapted Computer Technology Specialist

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

Ehresmann, Beverly (1990)

Professor, ESL

B.S., University of California Riverside

M.A., 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

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Everett, Mike (2002)

Professor, Mathematics

B.A., B.S., M.A., California State University, Fullerton

Finch, John (2006)

Public Administration

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Fish, Zachary (2004)

Associate Professor, Philosophy

B.A., Philosophy, University of New Orleans

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Fondren, Stephanie R. (1996)

Professor, Communication Studies

A.A., Long Beach City College

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Freeman, Suzanne (1993)

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Gable, Marsha (2011)

Associate Dean, EOPS

A.A., University of Toledo

B.A., M.A., California State University, San Marcos

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Gaer, Susan (1995)

ESL/Technology

M.A., TESL, San Francisco University

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Gallego, Robert (1989)

Counseling

B.A., California State University, Fullerton

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Galván, Javier (1996)

Professor, Spanish

B.A., California State University, Los Angeles

M.A., M.S., Ph.D., University of Southern California

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Garcia, Yolanda (1985)

Librarian

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

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Giroux, Regina A. (1984)

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M.S.N., D.N.Sc., University of San Diego

Goldmann, Dan (1975)

Professor, Biological Sciences

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Gonis, Andy (2005)

Associate Professor, Criminal Justice

M.S., Public Administration, California State University, Long Beach Graduate, Law Enforcement Parlance, FBI National Academy

Gonzaga-Siguenza, Patricia (1996)

Counseling

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Grant, Madeline (2001)

Global Business and Enterpreneurship

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Guerrero-Phlaum, Martha (2005)

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Guzmán, Kristen (2006)

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Haglund, Becky (1984)

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B.S.N., California State University, Los Angeles

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Hammonds, Glen (1996)

Professor, Automotive Technology

A.S., Rio Hondo College

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Hampton, Jubal (2001)

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Harding, Glen (2001)

Professor, Computer Science

B.A., University of California, Berkeley

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Hassel, Elissa A. (1996)

Professor, ESL

B.S., University of California, Davis

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Hester, James (1996)

Professor, Computer Science

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Hicks, Raymond (2002)

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B.A., Bowling Green State University

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M.B.A., Heriot-Watt University

Higgins, Mark (1989)

Professor, English

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Hirsch, Rosemarie (1997)

Professor, Nursing

A.D.N., Golden West College

B.S.N., California State University, Fullerton

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Hoffman, Bart (2005)

Dean, Human Services and Technology, Career Education

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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

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Horgan, Linda (2007)

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PMHNP, California State University, Long Beach



Huebsch, Mary (2001)

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B.A., Mount Holyoke College

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Hughes, Philip (1989)

Professor, Physical 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

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Jaffray, Shelly (1991)

Professor, English

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Janus, Louise (2011)

Learning Disabilities

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Jaros, Bonita N. (1980)

Professor, English/ESL

B.A., Hunter College

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Certificate in the Teaching of Composition,

University of California, Irvine

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Jenkins, Crystal (2004)

Professor, Chemistry

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M.S. California State University, Long Beach

Jenkins, Robert (1996)

ESL

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Jin, Jungwon (2011)

Assistant Professor, Music

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Jones, Elliott (2000)

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B.A., M.M., Arizona State University

D.M.A., University of Miami

Jones, Geoff (2004)

Associate Professor, Kinesiology

B.A., Chapman University

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Kalko, John M. (1985)

Professor, Physical Science

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Kanzler, Dietrich (1980)

Professor, Manufacturing Technology

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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

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D.M.A., University of Southern California

Kelcher, Michael (2007)

Associate Professor, Chemistry

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Kennedy, James (2007)

Interim Vice President, School of Continuing Education,

Santa Ana College

B.A., Sonoma State University

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Kikawa, Eve (1982)

Professor, Dance

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M.A., National University

Kossler, Wenona (2000)

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Kushida, Cherylee (1996)

Coordinator, Distance Education

B.S., University of California, Irvine

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Le, Phi Loan (2006)

Training Director, Psychological Services

Psy.D. Nova Southwestern University

Leeds, Kelvin (1997)

Professor, Mathematics

B.A., Southern California College

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Lewis, Michael L. (1996)

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B.A., California State University, Fullerton

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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 & Student Services,

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B.A., California State University, Fullerton

M.A., TESOL, Bilingual Education,

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Little, Charles (1986)

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B.A., Azusa Pacific University

M.A., University of La Verne



Lockwood, Lance (2005)

Associate Professor, Communication Studies

A.A., Victor Valley College B.A., M.A., Chapman University

Lopez, David A. (1993)

Professor, Instrumental Music/Ethnic Studies B.M., M.M., University of Arizona

Lopez, Jorge (2007)

Associate Professor, Biology B.S., University of California, Davis M.S., University of Chicago Ph.D., Indiana University

Lopez-Jaurequi, Leticia (1994)

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Lundquist, Sara (1982)

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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

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Macdonald, Juli (1996)

Professor, Kinesiology

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Madrigal, Romelia (2002)

Public Administration

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Educational Counseling M.A., National University

Mahany, Don (2008)

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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)

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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

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M.A., National University

Marquez, Phil (2011)

Assistant Professor, Art

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Martin, Ronald D. (1971)

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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

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McKowan-Bourguignon, Lisa (2011)

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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, Professor, Health Sciences, Nursing B.S.N., California State University, Long Beach

M.S.N., California State University, Dominguez Hills

Miller, Renee (2006)

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

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Mitzner, Rita (2006)

Associate Professor, English

B.A., M.A., Creative Writing

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Mixer, Dale (2004)

Associate Professor, Nursing

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B.S.N., California State University, Fullerton

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Montes, Agustin (1998)

Professor, Economics

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Montiel-Childress, Dena (1997)

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B.A., California State University, Fullerton

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M.A., United States International University

Moreno, George (2007)

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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)

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B.A., Moravian College, Bethlehem, PA

M.A., United States International University, Irvine, CA

TESOL Certificate, University of California, Irvine

Murphy, Tim (2000)

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SANTA ANA COLLEGE

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Cesar Chavez Building /Business / Computer Lab

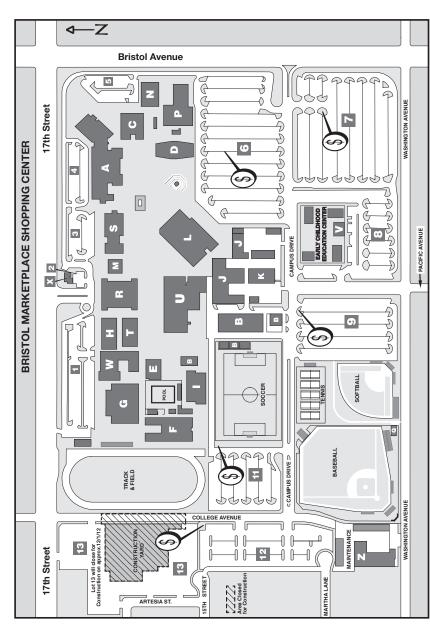
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ΔШ



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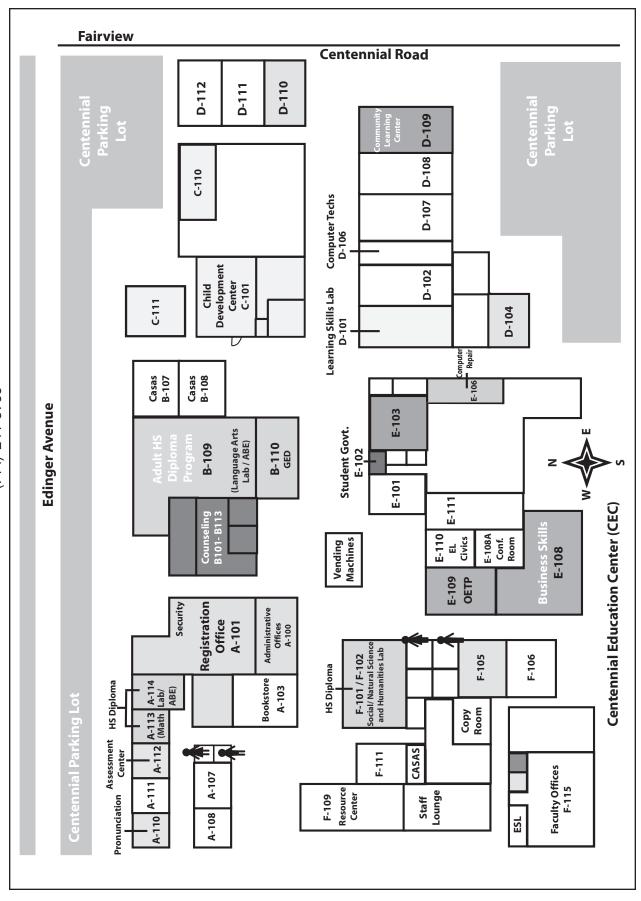


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