2017•2018 ADDENDUM

CATALOG

SANTA ANA COLLEGE

sac.edu

SANTA ANA COLLEGE / SANTIAGO CANYON COLLEGE
COLLEGE CREDIT INSTRUCTIONAL CALENDAR

COLLEGE CREDIT CLASSES
INSTRUCTIONAL CALENDAR 2017-2018

FALL SEMESTER 2017

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

INTERSESSION 2018

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

SPRING SEMESTER 2018

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

SUMMER SESSION 2018

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

JUNE • 2017

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

JULY • 2017

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

AUGUST • 2017

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

SEPTEMBER • 2017

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

OCTOBER • 2017

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

NOVEMBER • 2017

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

DECEMBER • 2017

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

JANUARY • 2018

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

FEBRUARY • 2018

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28			

MARCH • 2018

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

APRIL • 2018

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

MAY • 2018

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

JUNE • 2018

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

JULY • 2018

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

SANTA ANA COLLEGE

2017 • 2018

CATALOG

AND ANNOUNCEMENT OF COURSES

ADDENDUM

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

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

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

ORANGE COUNTY SHERIFF'S REGIONAL TRAINING ACADEMY
15991 Armstrong Blvd. • Tustin, CA 92782 • 714-566-9200 • sac.edu/ocr

JPTC-CN – JOINT POWERS FIRE TRAINING CENTER-CENTRAL NET
18301 Gothard St., Huntington Beach

RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT
2323 North Broadway • Santa Ana, CA 92706-1640 • 714-480-7300 • rsccd.edu

SANTA ANA COLLEGE • SANTIAGO CANYON COLLEGE
Rancho Santiago Community College District serves residents of Anaheim Hills, Orange, Santa Ana, Villa Park, and a portion of Garden Grove.

ACCREDITED BY THE WESTERN ASSOCIATION OF SCHOOLS AND COLLEGES

Santa Ana College and Santiago Canyon College are accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges, (10 Commercial Blvd., Suite 204, Novato, CA 94949, 415-506-0234), an institutional accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the U.S. Department of Education.

sac.edu

CONTENTS

Santa Ana College Philosophy And Mission 1

Rancho Santiago Community College District. 1

Certificate and Associate Degree Programs at Santa Ana College (SAC) 2

Associate Degree Requirements 3

General Education Requirements for the Associate Degree 4

Requirements for the Associate in Arts for Transfer (AA-T) or Associate in Science for Transfer (AS-T) 5

California State University General Education Breadth (CSU GE) 6

Intersegmental General Education Transfer Curriculum (IGETC) 7

Summary Of Changes Included In The Santa Ana College 2017-2018 Catalog Addendum 8

Bachelor of Science Occupational Studies Degree 9

ANNOUNCEMENT OF COURSES

Chemistry 210, General, Organic and Biochemistry. 10

Earth Science 110 (C-ID GEOL 120), Introduction to Earth Science 10

Earth Science 110H (C-ID GEOL 120), Honors Introduction to Earth Science 10

Earth Science 115, Earth Science for Educators 10

Earth Science 150, Introduction to Oceanography 10

Earth Science 150H, Honors Introduction to Oceanography. 10

Fire Academy 029, Public Safety Wellness and Fitness-Operation and Safety Training. 10

CATALOG UPDATE

This catalog supplement should be used by students and staff along with the existing 2017-2018 printed and online catalog. Students are strongly encouraged to seek advice from the Counseling Department. Additional information and publications will be made available to students throughout the year via the catalog website.

CREDITS

Editorial Content. . . . . Anh-Phuong Tran/Reyes Vazquez

Cover Design . . . . . .Miranda Medrano

Typography . . . . . .Nancy Smith

SANTA ANA COLLEGE PHILOSOPHY AND MISSION
RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

SANTA ANA COLLEGE MISSION STATEMENT

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

CATALOG CONTENT

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

INSTITUTIONAL LEARING OUTCOMES (CORE COMPETENCIES)

1. Communication Skills

a. Listening and Speaking

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

b. Reading and Writing

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

2. Thinking and Reasoning

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

a. Creative Thinking

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

b. Critical Thinking

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

c. Ethical Reasoning

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

d. Quantitative Reasoning

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

3. Information Management

a. Information Competency

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

b. Technology Competency

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

4. Diversity

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

a. Cultural

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

b. Social

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

c. Environmental

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

5. Civic Responsibility

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

6. Life Skills

a. Creative Expression

Students will produce artistic and creative expression.

b. Aesthetic Appreciation

Students will respond to artistic and creative expressions.

c. Personal Growth

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

d. Interpersonal Skills

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

7. Careers

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

ACCREDITATION

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

In addition to the current ACCJC college-wide accreditation, specified programs at Santa Ana College are also accredited by external accrediting bodies:

1. American Psychological Association (APA): for Doctoral Internship Program
2. Automotive Technology: National Automotive Technicians Education Foundation (NATEF)
3. Emergency Medical Technician: Orange County Emergency Medical Services (OCEMS)
4. International Business: National Association of Small Business International Trade Educators (NASBITE)
5. Occupational Therapy Assistant: Accreditation Council for Occupational Therapy Education (ACOTE)
6. Paralegal Studies: American Bar Association (ABA)
7. Pharmacy Technology: American Society of Health-System Pharmacists (ASHP)
8. Registered Nursing: Approved by the Board of Registered Nursing (BRN) and accredited by the Accreditation Commission for Education in Nursing (ACEN)
9. Basic Fire Academy and Fire Officer Training (State Fire Marshall's Office–SFMO)

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

CERTIFICATE AND ASSOCIATE DEGREE PROGRAMS AT SANTA ANA COLLEGE

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

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

Program of Study	BS	AA	AA-T	AS	AS-T	CA	CP
Accounting		1				6	4
American Sign Language						1	
Anthropology		1	1				
Art		3	2			7	1
Automotive				1		6	5
Biology				1	1		
Biotechnology				1		3	1
Black Studies		1					
Business				1	1		
Business Applications and Technology		4				4	7
Chemistry				1	1		
Chicano Studies		1					
Child Development		3			1	4	1
Communication Studies		1	1				
Communication & Media Studies		2	1			1	
Community Social Services		1					
Computer Information Systems				1		1	7
Computer Science				1	1	1	1
Criminal Justice		1			1	1	1
Dance		1				1	
Diesel Technology				2		2	6
Earth Science		1					
Economics		1	1				
Education		1	1				2
Engineering				8		6	8
English		1	1				
Entrepreneurship		1				1	1
Ethnic Studies		1					
Fashion Design		3				4	6
Film, Television, and Electronic Media					1		
Fire Technology				4		4	
Geography		1	1				
Geology				1	1		

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

ASSOCIATE DEGREE REQUIREMENTS: 2017–2018

I. Unit and Residency Requirements

60 UNITS, with at least a 2.0 grade point average. At least 12 of the units must be earned at the college. At least 6 of those units must be in courses required for the major unless students are earning an Associate Degree for Transfer. Units earned at a regionally accredited college or university on a pass/no pass basis will be counted toward the degree requirements of the college, to a maximum of 15 units.

II. General Education Requirements

24 semester units of general education which include one course or more as indicated in group requirements A, B, C, D, E, and F. **NOTE:** See Plan A, page 4 for specific course requirements.

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

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

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

III. Major Requirements

Each degree and certificate program specifies courses required for the major (a minimum of 18 units). Students must complete these courses with a grade of C or better. See Instructional Programs Section. Courses in the student's major may not be taken under the Pass/No Pass policy except for Associate Degrees for Transfer, or as designated in certain programs or disciplines (see page 296) or as designated through credit by examination or assessment.

IV. Required Proficiencies

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

A. Reading

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

B. Mathematics

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

V. Oral Communication Requirement

Completion of 3 units with a grade of "C" or better from the following: Communication Studies 101 or 101H (Interpersonal Communication); Communication Studies 102 (Public Speaking); Communication Studies 140 (Argumentation and Debate); Communication Studies 145 (Group Dynamics); Communication Studies 152 (Oral Interpretation).

Petition for Graduation and Catalog Rights:

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

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

GENERAL EDUCATION REQUIREMENTS FOR THE ASSOCIATE DEGREE

PLAN A: 2017-2018

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

NOTE: See page 9, for specific requirements for the following:

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

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

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

II. Required General Education Courses

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

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

1. American Institutions (minimum 3 semester units)
History 118, 120 or 120H, 121 or 121H, 122
Political Science 101 or 101H

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

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

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

D1. Ethnic Studies/Women's Studies
American Sign Language 116
Anthropology 104 or 104H, 125
Art 103, 104, 106
Asian American Studies 101
Black Studies 101
Chicano Studies 101
Child Development 221
Communication Studies 103 or 103H, 206 or 206H
English 104 or 104H
Ethnic Studies 101 or 101H, 102 or 102H
History 123, 124 or 124H, 125, 127, 146, 150, 151, 153, 163, 181
Kinesiology, Health Education 102
English 245, 246, 278
Music 103
Nutrition and Food 118
Political Science 235
Psychology 170
Women's Studies 101, 102

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

E. Language and Rationality (minimum 6 semester units)

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

2. Communication and Analytical Thinking
(minimum 3 semester units)
Includes mathematics, logic, statistics, computer languages and programming and related disciplines.
Communication Studies 102, 140, 145
Computer Science 100, 105
Counseling 144
English 102 or 102H, 103 or 103H
Mathematics 083, 084, 105, 140, 145, 150, 160, 170, 180 or 180H, 185, 204, 219 or 219H, 280, 287
Philosophy 110 or 110H, 111
Psychology 210
Reading 101, 102, 150

F. Lifelong Understanding and Self-Development
(minimum 3 semester units)

NOTE: Take one course from each group. No more than one semester unit may be counted from F2.

Three semester units for Health Education and one semester unit for Kinesiology may be granted on the basis of military service. See page 291 for additional information.

1. Completion of one of the following:
Business 130
Child Development 102, 107
Counseling 100, 116, 120, 124, 125, 128
Entrepreneurship 100
Fashion Design Merchandising 103
Interdisciplinary Studies 111, 155
Kinesiology, Health Education 101, 102, 103, 104
Kinesiology, Professional 125, 160
Library and Information Studies 100
Mathematics 030
Nutrition and Food 115 or 115H
Philosophy 111
Psychology 140, 230
Sociology 112
Study Skills 109

2. Completion of one of the following:
Dance 102, 201A, 201B, 206A, 206B, 219A, 219B
Kinesiology, Activities 107A, 107B, 123, 140A, 150A, 155A, 160A, 169A, 169B, 170A, 200A, 200B, 200C, 211A, 211B, 220A, 220B, 220C, 226A, 260A, 260B, 265A, 265B, 169B, 270A, 290A, 290B
Kinesiology, Adapted Activities 201A, 202A, 202B, 205A, 208A, 208B, 211A, 211B
Kinesiology, Aerobic Fitness 140A, 143A, 144A, 146A, 146B, 150A, 156A, 156B, 157A
Kinesiology, Aquatics 201A, 201B, 204
Kinesiology, Fitness 100, 101A, 101B, 101C, 102, 109A, 109B, 109C, 110A, 110B, 110C, 112A, 112B, 112C, 115A, 115B, 115C, 147A, 147B
Kinesiology, Intercollegiate Athletics 125, 128, 133, 134, 171, 201, 202, 204, 206, 209, 210, 211, 212, 213, 214, 216, 217, 218, 219, 220, 221, 223, 227, 230, 231, 232, 235, 240, 261, 262, 270, 271, 281, 291, 293
Kinesiology, Professional 155, 165, 175, 200, 275

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

ASSOCIATE DEGREES FOR TRANSFER

Associate Degree for Transfer℠

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

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

Santa Ana College offers numerous A.A.-T and A.S.-T degrees. To find out which CSU campuses accept each degree, please meet with a SAC counselor. You can also find this information at: www.degreewitha guarantee.com. **An A.A.-T or A.S.-T degree may not be the best option for students intending to transfer to a particular CSU campus, or to a university or college that is not part of the CSU system.** Current and prospective community college students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

Requirements

Student completion requirements for the associate degree for transfer:

1. 60 semester or 90 quarter CSU transferable units. At least 12 of the units must be earned at Santa Ana College.
2. the California State University General Education-Breadth pattern (CSU GE Breadth page 11); OR the Intersegmental General Education Transfer Curriculum (IGETC page 12) pattern.

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

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

CSU GE Breadth for STEM for students earning an A.S.-T in Biology only

Complete the following CSU-GE courses before transfer:

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

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

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

IGETC for STEM for students earning an A.S.-T in Biology or Chemistry only

Complete the following IGETC courses before transfer:

- All courses in Areas 1 (except 1C for UC-bound students), 2, and 5; and
- One course in Area 3A; one course in Area 3B; and two courses in Area 4 from two different disciplines.

Complete the following courses after transfer:

- One remaining lower-division GE course in Area 3;*
- One remaining lower-division GE course in Area 4;* and
- One course in Area 6 for UC-bound students who have not satisfied it through proficiency.*

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

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

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

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

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

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

Course Substitutions and Reciprocity, Policy and Procedures

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

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

CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION BREADTH (CSU GE)

PLAN B: 2017-2018

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

CERTIFICATION OF GENERAL EDUCATION

1. Santa Ana College is authorized to certify a maximum of 39 general education units.
2. No more than 30 semester units may be certified for areas B through D combined, which are described in the next section.
3. Pass/No Pass grades are accepted for certification in all areas; however, they are not recommended for transfer credit in basic skill areas. (A. Communication in the English Language and Critical Thinking, A1, A2, and A3; and B. The Physical Universe and Its Life Forms, B4.) In addition, letter grades may be recommended or required for specific courses in a given major. Each CSU campus may also limit the total number of units graded credit.
4. A single course may not meet more than one general education requirement.
5. Requests for certification should be made to the Office of Admissions and Records during the semester prior to the last term of attendance. Please consult the class schedule or the Counseling Department for deadline information.
6. Certification of coursework from other colleges will be granted to students whose last community college of attendance prior to transfer is Santa Ana.
7. Courses taken at other California Community Colleges will be applied to the subject areas in which they were listed by the institution where the course was completed.
8. Courses taken at other regionally accredited private/out of state institutions (which do not maintain a CSU certification list) will be placed in the subject areas for which Santa Ana College has equivalent courses. In some cases non-equivalent courses may also be considered. Consult a counselor for additional information. Courses completed at foreign institutions are not acceptable for certification.
9. Students earning an A.S.-T in Biology must complete CSU-GE Breadth for STEM. See "Associate Degrees for Transfer" on page 12 for additional information.

IMPORTANT NOTE: The list of certifiable courses will be subject to change year by year, but students are assured that courses taken to meet general education-breadth requirements will be honored **if they are approved for the academic year in which they are taken. Courses on this list are approved beginning Fall 2017 and are valid through Summer 2018**.

TRANSFER CREDIT

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

A. English Language Communication and Critical Thinking
(minimum 9 semester/12 quarter units)
The 9 units selected from this area must include at least one course each from A1, A2, and A3. Each course must be completed with a grade of "C" or better.

A1: Oral Communication
Communication Studies 101 or 101H, 102, 103 or 103H, 140, 145

A2: Written Communication
English 101 or 101H

A3: Critical Thinking
Communication Studies 140
Counseling 144
English 102 or 102H (102 and 102H not accepted in A3 if completed prior to Fall 2011), 103 or 103H
Philosophy 110 or 110H, 111
Reading 150

B. Scientific Inquiry and Quantitative Reasoning
(minimum 9 semester/12 quarter units)
The 9 units selected from this area must include at least one course each from B1, B2, and B4. The 9 units must also include a corresponding lab component. (Lab classes are in **bold**.) Courses in B4 must be completed with a grade of "C" or better.

B1: Physical Science
Astronomy **109, 110 or 110H**
Chemistry **109, 115, 119, 209, 210, 219 or 219H**
Earth Science 110 or 110H, **115**, 150 or 150H
Environmental Studies 140
Geography 101, 130
Geology 101, 140, 150 or 150H, **201**
Physical Science **115**, 117
Physics **109, 210, 211, 217, 227, 237, 279, 289**

B2: Life Science
Anthropology 101
Biology 109 or 109H, **111, 115, 139, 149,** 177, 190, **211, 212, 214, 229, 239, 259**
Environmental Studies **259**

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

B4: Mathematics/Quantitative Reasoning
Courses must be completed with a grade of "C" or better.
Mathematics 105, 140, 145, 150, 160, 170, 180 or 180H, 185, 204, 219 or 219H, 280
Psychology 210

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

C1: Arts: Art, Cinema, Dance, Music, Theatre
Art 100 or 100H, 101, 102, 103, 104, 105, 106, 107 108
Communications & Media Studies 103
Dance 100 or 100H, 102,105
English 233A, 233B, 233C
Interdisciplinary Studies 121
Music 101 or 101H, 102 or 102H, 103, 104, 105, 110, 111, 211
Photography 150
Television/Video Communications 103, 104
Theatre Arts 100, 105

C2: Humanities: Literature, Philosophy, Languages Other Than English
American Sign Language 110, 111, 116, 210
Chinese 101, 102
English 102 or 102H, 206, 220, 231, 232, 233A, 233B, 233C, 241, 242, 243, 245, 246, 270, 271, 272, 278
French 101, 102, 201 or 201H, 202 or 202H
History 101 or 101H, 102 or 102H, 150, 151, 153, 163
Interdisciplinary Studies 200
Italian 120, 121
Japanese 101, 102
Kinesiology, Professional 170
Philosophy 106 or 106H, 108, 112, 118
Spanish 101 or 101H, 102 or 102H, 195A, 195B, 201 or 201H, 202 or 202H
Vietnamese 101, 102

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

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

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

E1:
Business 130
Child Development 107, 229
Communication Studies 104
Counseling 100, 116, 120, 124, 125, 128
Interdisciplinary Studies 155
Kinesiology, Health Education 101, 102, 103, 104
Kinesiology, Professional 125
Nutrition and Food 115 or 115H
Psychology 140, 157, 230
Sociology 112
Study Skills 109

E2:
Kinesiology, Activities 107A, 107B, 123, 140A, 150A, 155A, 160A, 169A, 169B, 170A, 200A, 200B, 200C, 211A, 211B, 220A, 220B, 220C, 226A, 260A, 260B, 265A, 265B, 270A, 290A, 290B
Kinesiology, Adapted Activities 201A, 202A, 202B, 205A, 208A, 208B, 211A, 211B
Kinesiology, Aerobic Fitness 140A, 143A, 144A, 146A, 146B, 150A, 156A, 156B, 157A
Kinesiology, Aquatics 201A, 201B, 204
Kinesiology, Fitness 100, 101A, 101B, 101C, 102, 110A, 110B, 110C, 112A, 112B, 112C, 115A, 115B, 115C, 147A, 147B
Kinesiology, Intercollegiate Athletics 125, 128, 133, 134, 171, 201, 202, 204, 206, 209, 210, 211, 212, 213, 214, 216, 217, 218, 219, 220, 221, 223, 227, 235, 240, 261, 262, 270, 271, 281, 291, 293

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)

PLAN C: 2017-2018

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

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

IMPORTANT NOTE: The list of certifiable courses will be subject to change year by year, but students are assured that courses taken to meet IGETC requirements will be honored **if they are approved for the academic year in which they are taken. Courses on this list are approved beginning Fall 2017 and are valid through Summer 2018.**

AREA 1 - ENGLISH COMMUNICATION
C.S.U.: 3 courses required, one from each group.
U.C.: 2 courses required, one each from Group A and B.

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

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

Group C: Oral Communication (CSU ONLY)
1 course, 3 semester/4-5 quarter units.
Communication Studies 102, 103** or 103H**, 140, 145

AREA 2A - MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING
1 course, 3 semester/4-5 quarter units.
Math 105, 140**, 145, 150**, 170**, 180** or 180H**, 185, 219** or 219H**, 280; Psychology 210

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

Group A: Arts (minimum 1 course)
Art 100** or 100H**, 101, 102, 103, 104, 105, 106, 108
Communications & Media Studies 103
Dance 100** or 100H**, 102, 105
Interdisciplinary Studies 121
Music 101** or 101H**, 102** or 102H**, 103, 104, 111, 211
Photography 150
Television/Video Communications 103, 104
Theatre Arts 100, 105

Group B: Humanities (minimum 1 course)
American Sign Language 111, 116, 210
Chinese 102
English 102** or 102H**, 206, 220, 231, 232, 233A or 233B or 233C, 241, 242, 243, 245, 246, 271, 272, 278
French 102, 201** or 201H**, 202** or 202H**
History 101** or 101H**, 102** or 102H**, 150, 151, 153, 163*
Interdisciplinary Studies 200
Italian 121
Japanese 102
Philosophy 106** or 106H**, 108, 112, 118
Spanish 102** or 102H**, 195A, 195B, 201** or 201H**, 202** or 202H**
Vietnamese 102

AREA 4 - SOCIAL AND BEHAVIORAL SCIENCES
3 courses, 9 semester/12-15 quarter units from at least 2 disciplines or an interdisciplinary sequence.

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

AREA 5 - PHYSICAL AND BIOLOGICAL SCIENCES
At least 2 courses, 7-9 semester/9-12 quarter units with one Physical Science course and one Biological Science course; at least one must include a corresponding laboratory (Group C)

Group A: Physical Science (1 course)
Astronomy 109, 110** or 110H**
Chemistry 109**, 115, 119**, 209**,210, 219** or 219H**, 229
Earth Science 110** or 110H**, 115**, 150** or 150H**
Environmental Studies 140
Geography 101**, 130
Geology 101**, 140, 150** or 150H**, 201
Physical Science 115, 117**
Physics 109**, 210**, 211**, 217**, 227**, 237**, 279**, 289**

Group B: Biological Science (1 course)
Anthropology 101
Biology 109** or 109H**, 111, 115, 139**, 149, 177, 190, 211**, 212, 214, 229**, 239, 249, 259
Environmental Studies 259

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

AREA 6A - LANGUAGE OTHER THAN ENGLISH (U.C. ONLY)
Satisfactory completion of two years of high school coursework in one language other than English with grades of "C" or better***;

OR

completion of one of the following: American Sign Language 110, Chinese 101, French 101, Italian 120, Japanese 101, Spanish 101** or 101H**, or Vietnamese 101;

OR

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

OR

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

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

OR

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

AMERICAN INSTITUTIONS REQUIREMENT

(Not part of IGETC. May be completed prior to transfer.)
CSU has an American Institutions graduation requirement that is separate from IGETC. Courses used to meet the CSU requirement **can** usually also be used in Area 3 or 4. (This is at the 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**, 123, 124**, 124H**, 127, 146.

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

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

** Indicates that transfer credit may be limited by either UC or CSU or both. Please see page 24 for additional information.

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

SUMMARY OF CHANGES INCLUDED IN THE SANTA ANA COLLEGE 2017-2018 CATALOG ADDENDUM

Bachelor of Science Occupational Studies Degree

ANNOUNCEMENT OF COURSES

Chemistry 210, General, Organic and Biochemistry

Earth Science 110 (C-ID GEOL 120), Introduction to Earth Science

Earth Science 110H (C-ID GEOL 120), Honors Introduction to Earth Science

Earth Science 115, Earth Science for Educators

Earth Science 150, Introduction to Oceanography

Earth Science 150H, Honors Introduction to Oceanography

Fire Academy 029, Public Safety Wellness and Fitness-Operation and Safety Training

Bachelor of Science Occupational Studies Degree
Program code: sac.os.bs

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

Learning Outcome(s):

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

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

Required lower division courses specific to the BS Degree

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

CHEMISTRY (CHEM)

Chemistry 210

General, Organic and Biochemistry

Unit(s): 5.0 Class Hours: 72 Lecture, 54 Laboratory total.

Prerequisite: Chemistry 209 with a minimum grade of C OR passing grade on current chemistry placement exam and Mathematics 080 or Mathematics 081 or Mathematics 083 or Mathematics 084 with a minimum grade of C.

An introduction to the fundamental concepts of general, organic and biochemistry for majors in nursing and other allied health majors. Includes atomic structure, nuclear chemistry, bonding, solutions, acids and bases, organic nomenclature, hydrocarbons, alcohol, aldehydes, ketones, carboxylic acids, carbohydrates, proteins, lipids, nucleic acids and metabolism. CSU/UC

EARTH SCIENCE (ERTH)

Earth Science 110 (C-ID GEOL 120)

Introduction to Earth Science

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

A study of the processes that shape and form the Earth and define its place in the solar system. Introduction to the sciences of geology, oceanography, meteorology, and astronomy. Not open to students who are enrolled, or have credit in Geology 101 or Geography 101. CSU/UC

Earth Science 110H (C-ID GEOL 120)

Honors Introduction to Earth Science

Unit(s): 3.0 Class Hours: 54 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. CSU/UC

Earth Science 115

Earth Science for Educators

Unit(s): 4.0 Class Hours: 54 Lecture, 54 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. Half-day field trip required. Not open to students who are enrolled or have credit in Earth Science 110, Geology 101, or Geography 101. CSU/UC

Earth Science 150

Introduction to Oceanography

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

Introductory study of the ocean and its topography, sediments, circulation, shoreline processes, biological productivity, and mineral resources. (Same as Geology 150). CSU/UC

Earth Science 150H

Honors Introduction to Oceanography

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

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

Enriched and intensive study of the ocean's topography, sediments, circulation, shoreline processes, biological productivity, and mineral resources. Course is taught in a seminar format to provide optimal active learning and critical thinking. (Same as Geology 150H). CSU/UC

FIRE ACADEMY (FAC)

Fire Academy 029

Public Safety Wellness and Fitness-Operation and Safety Training

Unit(s): 2.0 Class Hours: 8 Lecture, 95 Laboratory total.

Occupation specific wellness and fitness principles to prepare those who respond to emergencies, accidents, local and national disasters and terrorist attacks. Physical fitness concepts and activities prepare the student for any threat whether physical, environmental or psychological. Individualized fitness assessment, fitness profile and exercise prescription provided. Grade: Pass/No Pass Only.

SANTA ANA COLLEGE

1530 West 17th Street • Santa Ana • sac.edu

CENTENNIAL EDUCATION CENTER
2900 West Edinger Avenue • Santa Ana • sac.edu/cec

DIGITAL MEDIA CENTER
1300 South Bristol Street • Santa Ana • sac.edu/dmc

ORANGE COUNTY REGIONAL
Sheriff's Training Academy
15991 Armstrong Avenue • Tustin • sac.edu/ocr

JPTC-CN – JOINT POWER TRAINING CENTER-CENTRAL NET
Basic Fire Academy
18301 Gothard • Huntington Beach, CA 92648