ADDENDUM

SANTA ANA COLLEGE

CATALOG

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2021-22

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SANTA ANA COLLEGE
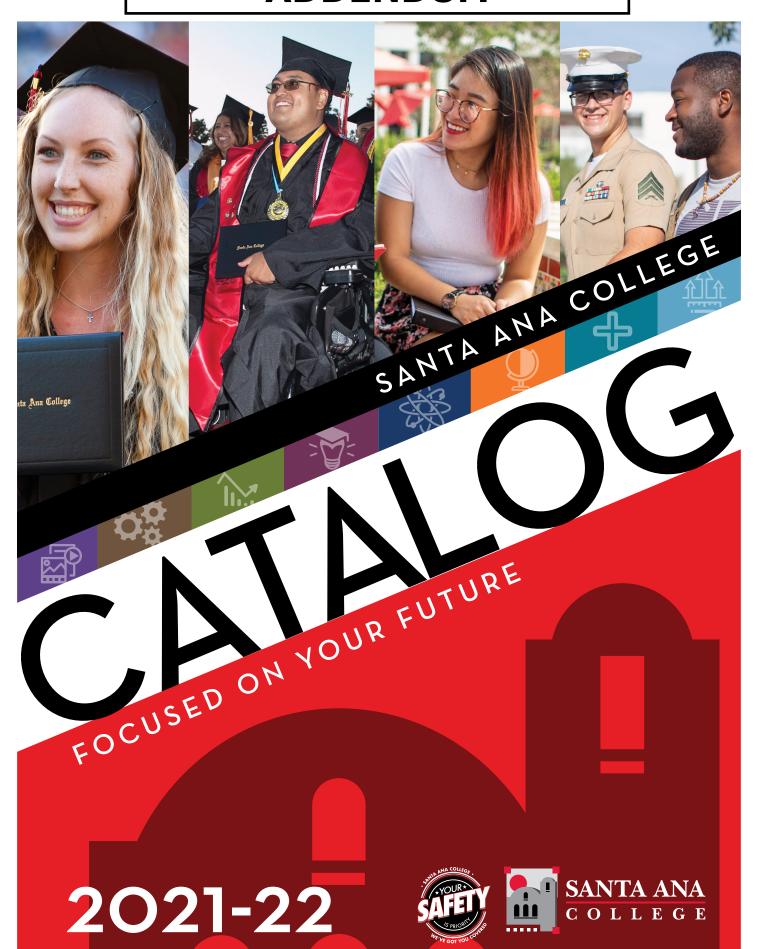
SANTA ANA COLLEGE
2021 – 2022
CATALOG
AND ANNOUNCEMENT OF COURSES

ADDENDUM

SANTA ANA COLLEGE

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

SCHOOL OF CONTINUING EDUCATION

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

DIGITAL MEDIA CENTER

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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.

CONTENTS

COLLEGE CREDIT INSTRUCTIONAL CALENDAR 2021 – 2022

FALL SEMESTER 2021

August 17-19	Faculty Projects
August 20-21	Common College Flex Days
August 23	**INSTRUCTION BEGINS**
September 5	Last day to add and to drop full-term classes without "W" grade with enrollment fee refund
September 6	Labor Day – Holiday
September 10	Deadline for Graduation Petition for Associate Degrees for Transfer (ADT) - only for eVerify
September 24	Last date to file Pass/No Pass (semester-length courses)
October 8	Deadline for Degree/Certificate/Certification Petitions
November 11	Veterans Day – Holiday
November 14	Last day to drop semester-length classes with a "W" grade
November 25 – 27	Thanksgiving – Holiday
December 12	**INSTRUCTION ENDS**
Dec. 24 – Dec. 25	Holiday Break

INTERSESSION 2022

January 3	**INSTRUCTION BEGINS**
January 11	Last day to file Pass/No Pass
January 17	Martin Luther King's Birthday – Holiday
January 30	**INSTRUCTION ENDS**

SPRING SEMESTER 2022

February 1-3	Faculty Projects
February 4-5	Common College Flex Days
February 7	**INSTRUCTION BEGINS**
February 10	Deadline for Graduation Petition for Associate Degrees for Transfer (ADT) - only for eVerify
February 18	Lincoln's Birthday – Holiday
February 21	President's Day – Holiday
February 20	Last day to add and to drop full-term classes without "W" grade with enrollment fee refund
March 11	Last date to file Pass/No Pass (semester-length courses)
March 11	Deadline for Degree/Certificate/Certification Petitions
March 31	Cesar Chavez Day (observed)
April 4-10	Spring Recess
May 8	Last day to drop semester-length classes with "W" grade
May 30	Memorial Day – Holiday
June 3	Commencement – Santiago Canyon College
June 2	Commencement – Santa Ana College
June 5	**INSTRUCTION ENDS**

SUMMER SESSION 2022

June 13	**INSTRUCTION BEGINS**
June 24	Deadline for Graduation Petition
July 4	Independence Day – Holiday
August 7	**INSTRUCTION ENDS**

Significant changes have been made to this general (GE) pattern effective Fall 2021. Area D, Social Sciences, has been reduced from nine units to six. Area F, Ethnic Studies, is a new three unit requirement. Students who began at SAC in Fall 2021 or later should follow the course pattern below. However, students who began attending SAC prior to Fall 2021 will be permitted to complete the previous CSU GE pattern if they maintain continuous enrollment. Please consult a SAC counselor for additional information.

CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION BREADTH (CSU GE)
PLAN B: 2021-2022

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

CERTIFICATION OF GENERAL EDUCATION
1. Santa Ana College is authorized to certify a maximum of 39-40 general education units.
2. CSU-GE Certification indicates that a transfer student has met CSU lower division GE requirements. Students may earn full or subject area certification.
3. Pass/No Pass grades are accepted for certification in all areas; however, they are not recommended for transfer credit in basic skill areas. (A. English language, Communication and Critical Thinking, A1, A2, and A3; and B4. Mathematics/Quantative Reasoning.) In addition, letter grades may be recommended or required for specific courses in a given major. Each CSU campus may also limit the total number of units graded credit.
4. A single course may not meet more than one general education requirement.
5. Requests for certification should be made to the Office of Admissions and Records during the semester prior to the last term of attendance. Please consult the class schedule or the Counseling Department for deadline information.
6. Certification of coursework from other colleges will be granted to students whose last community college of attendance prior to transfer is Santa Ana.
7. Courses taken at other California Community Colleges will be applied to the subject areas in which they were listed by the institution where the course was completed.
8. Courses taken at other regionally accredited private/out of state institutions (which do not maintain a CSU certification list) will be placed in the subject areas for which Santa Ana College has equivalent courses. In some cases non-equivalent courses may also be considered. Consult a counselor for additional information. Courses completed at foreign institutions are not acceptable for certification.
9. Students earning an AS-T in Biology must complete CSU-GE Breadth for STEM. See "Associate Degrees for Transfer" on page 23 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 2021 and are valid through Summer 2022.**

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

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

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

A2:   Written Communication
English 101 or 101H
A3:   Critical Thinking
Communication Studies 140
Counseling 144
English 102 or 102H (102 and 102H not accepted in A3 if completed prior to Fall 2011), 103 or 103H
Philosophy 110 or 110H, 111
Reading 150

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

B1:   Physical Science
Astronomy **109, 110** or **110H**
Chemistry **109, 115, 119, 209, 210, 219** or **219H, 229**
Earth Science 110 or 110H, **115**, 150 or 150H
Environmental Studies 140
Geography 101, 130
Geology 101, 140, 150 or 150H, **201**
Physical Science **115**, 117
Physics **109, 210, 211, 217, 227, 237, 279, 289**

B2: Life Science
Anthropology 101
Biology 109 or 109H, **111, 115, 139, 149,** 177, 190, **211, 212, 214, 229, 239, 249, 259**
Environmental Studies **259**
Psychology 200 (Fall 2017 or later completion)

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

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

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

C1:   Arts: Art, Cinema, Dance, Music, Theatre
Art 100 or 100H, 101, 102, 103, 104, 105, 106, 108
Communications & Media Studies 103
Dance 100 or 100H, 101, 102, 104, 105
Digital Media 102, 103, 104, 107, 113
English 233A, 233B, 233C
Interdisciplinary Studies 121
Music 101 or 101H, 102 or 102H, 103, 104, 105, 110 (Fall 2015 or
later completion), 111
Photography 150
Theatre Arts 100, 105, 120, 123

**C2:   Humanities: Literature, Philosophy, Languages
          Other Than English**
American Sign Language 110, 111, 116, 210
Chinese 101, 102
Digital Media 105
English 102 or 102H, 220, 231, 232, 233A, 233B, 233C,
    241, 242, 243, 245, 246, 270, 271, 272, 278
French 101, 102, 201 or 201H, 202 or 202H
History 101 or 101H, 102 or 102H, 150, 151, 153, 163
Interdisciplinary Studies 200
Italian 120, 121
Japanese 101, 102
Kinesiology, Professional 170
Philosophy 106 or 106H, 108, 112, 118
Spanish 101 or 101H, 102 or 102H, 195A, 195B, 201 or 201H, 202
    or 202H
Vietnamese 101, 102

D.   Social Sciences
(minimum 6 semester/9 quarter units)
Anthropology 100 or 100H, 103, 104 or 104H, 105, 125
Asian American Studies 101
Biology 200
Black Studies 101
Chicano Studies 101
Child Development 107, 110
Communication Studies 103 or 103H, 206 or 206H
Communications & Media Studies 105 or 105H, 111
Computer Science 100
Counseling 150
Criminal Justice 101 or 101H
Economics 120, 121
English 104 or 104H, 245, 278
Environmental Studies 200
Ethnic Studies 101 or 101H, 102 or 102H
Geography 100 or 100H, 102, 140

History 101 or 101H, 102 or 102H, 105, **118, 120 or 120H, 121
    or 121H, 123, 124 or 124H,** 125, **127,** 133, **146**, 150, 151, 153,
    163, 181
Interdisciplinary Studies 117H, 155
Kinesiology, Professional 150
Law 100
Paralegal 100 (Fall 2021 or later completion)
Political Science **101** or **101H**, 200 or 200H, 201, 220, 235
Psychology 100 or 100H, 140, 157, 160, 170, 200, 219, 230, 240,
    250
Sociology 100 or 100H, 112, 140 or 140H, 240
Women's Studies 101, 102

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

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

E1:
Child Development 107, 229
Counseling 100, 116, 124, 125, 128
Fashion Design Merchandising 103 (Fall 2021 or later completion)
Interdisciplinary Studies 155
Kinesiology, Health Education 101 or 101H, 102, 103, 104
Kinesiology, Professional 125
Nutrition and Food 115 or 115H
Psychology 140, 157, 230
Sociology 112
Study Skills 109 (Fall 2013 or later completion)

E2:
Kinesiology, Activities 107A, 107B, 107C, 123, 140A,
    150A, 155A, 160A, 169A, 169B, 170A, 200A, 200B, 200C, 211A,
    211B, 220A, 220B, 220C, 226A, 230A, 260A, 260B, 260C, 265A,
    265B, 265C, 270A, 290A, 290B
Kinesiology, Adapted Activities 201A, 202A, 202B, 205A, 208A, 208B,
    211A, 211B
Kinesiology, Aerobic Fitness 140A, 143A, 144A, 146A,n146B, 150A,
    156A, 156B, 157A
Kinesiology, Aquatics 201A, 201B
Kinesiology, Fitness 112A, 112B, 112C, 114A, 114B, 115A, 115B,
    115C, 147A, 147B
Kinesiology, Intercollegiate Athletics 125, 128, 133, 171, 201, 202,
    204, 206, 209, 210, 211, 212, 213, 216, 217, 218, 219, 220, 221,
    223, 227, 235, 240, 261, 262, 270, 271, 281, 291, 293

F.   Ethnic Studies
(minimum 3 semester/4 quarter units)
Chicano Studies 101 (Fall 2021 or later completion)
Ethnic Studies 101 (Fall 2021 or later completion) or 101H (Fall 2021
or later completion)

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)
PLAN C: 2021-2022

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

1. It is generally recommended that students complete all the listed requirements for IGETC prior to transferring. Students may obtain partial certification, however, by completing all but 1-2 courses. Consult a counselor for additional information.
2. **Complete all courses used for IGETC certification with a minimum grade of C (C minus is not acceptable.)** A "pass" is acceptable providing it is equivalent to a grade of C or higher. The catalog must reflect this policy.
3. Request certification from the last California community college attended prior to transfer to CSU or UC. Requests should be made to the Office of Admissions and Records during the semester prior to the last term of attendance. Please consult the class schedule or a counselor for deadline information.
4. Prior to requesting certification, have all official transcripts on file from every high school and college attended.
5. Courses taken at other California community colleges will be applied to the subject areas in which they are listed by the institution where the work was completed.
6. Courses taken at other regionally accredited private/out of state institutions (which do not maintain an IGETC certification list) will be placed in the subject areas for which Santa Ana College has equivalent courses. Equivalency is determined by Santa Ana College faculty. Petitions are available from the Counseling Division and must be accompanied by the appropriate documentation. In some cases non-equivalent courses may also be considered. Consult a counselor for additional information.
7. Courses completed at foreign institutions (without US regional accreditation) are not acceptable except for certification of competence in a language other than English.
8. Students earning an AS-T in Biology or Chemistry must complete IGETC for STEM. See "Associate Degrees for Transfer" on page 23 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 2021 and are valid through Summer 2022.**

TRANSFER CREDIT
Students may transfer up to 70 semester units to the UC or CSU system. Sixty transferable units are needed for junior standing.
All courses used for CSU transfer credit must be numbered 100 or above in the Santa Ana College catalog. All courses used for UC transfer credit can be found on page 42.

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

AREA 2A - MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING
1 course, 3 semester/4-5 quarter units.
Math 105, 140**, 141**, 145, 150**, 170**, 180**, 185, 219** or 219H**, 221**, 280, 287; Psychology 210

AREA 3 - ARTS AND HUMANITIES
3 courses, 9 semester/12-15 quarter units, with at least one course from Group A and one course from Group B.
Group A: Arts (minimum 1 course)
Art 100** or 100H**, 101, 102, 103, 104, 105, 106, 108
Communications & Media Studies 103
Dance 100** or 100H**, 102, 105
Digital Media 103, 104, 107
Interdisciplinary Studies 121
Music 101** or 101H**, 102** or 102H**, 103, 104, 105, 111
Photography 150
Theatre Arts 100, 105, 120, 123 (Fall 2020 or later completion)
Group B: Humanities (minimum 1 course)
American Sign Language 111, 116, 210
Chinese 102
English 102** or 102H**, 220, 231, 232, 233A or 233B or 233C, 241, 242, 243, 245, 246, 270 (Fall 2020 or later competion), 271, 272, 278
French 102, 201** or 201H**, 202** or 202H**
History 101** or 101H**, 102** or 102H**, 150, 151, 153, 163*
Interdisciplinary Studies 200
Italian 121
Japanese 102
Philosophy 106** or 106H**, 108, 112, 118
Spanish 102** or 102H**, 195A, 195B, 201** or 201H**, 202** or 202H**
Vietnamese 102

AREA 4 - SOCIAL AND BEHAVIORAL SCIENCES
3 courses, 9 semester/12-15 quarter units from at least 2 disciplines or an interdisciplinary sequence.
Anthropology 100** or 100H**, 103, 104** or 104H**,105, 125
Asian American Studies 101
Biology 200
Black Studies 101
Chicano Studies 101
Child Development 107**
Communication Studies 206** or 206H**
Communications & Media Studies 105** or 105H**, 111
Criminal Justice 101 or 101H
Economics 120, 121
English 104** or 104H**
Environmental Studies 200
Ethnic Studies 101** or 101H**, 102** or 102H**
Geography 100** or 100H**, 102**, 140
History 101**, 101H**, 102**, 102H** (101, 101H, 102, 102H Fall 2013 or later completion), 105, 118, 120** or 120H**, 121** or 121H**, 123, 124** or 124H**, 125, 127, 133, 146, 163*, 181
Interdisciplinary Studies 117H, 155
Law 100 (Fall 2020 or later completiion)

Paralegal 100 (Fall 2021 or later completion)
Political Science 101** or 101H**, 200** or 200H**, 201, 220, 235
Psychology 100** or 100H**, 140, 157**, 160, 170, 200, 219, 230, 240, 250
Sociology 100** or 100H**, 140** or 140H**, 240
Women's Studies 101, 102

AREA 5 - PHYSICAL AND BIOLOGICAL SCIENCES
At least 2 courses, 7-9 semester/9-12 quarter units with one Physical Science course and one Biological Science course; at least one must include a corresponding laboratory (Group C)
Group A: Physical Science (1 course)
Astronomy 109, 110** or 110H**
Chemistry 109**, 115, 119**, 209**,210, 219** or 219H**, 229
Earth Science 110** or 110H**, 115**, 150** or 150H**
Environmental Studies 140
Geography 101**, 130
Geology 101**, 140, 150** or 150H**, 201
Physical Science 115, 117**
Physics 109**, 210**, 211**, 217**, 227**, 237**, 279**, 289**
Group B: Biological Science (1 course)
Anthropology 101
Biology 109** or 109H**, 111, 115, 139**, 149
(Fall 2017 or later completion), 177, 190, 211**, 212, 214, 229**, 239, 249, 259
Environmental Studies 259
Psychology 200 (Fall 2017 or later completion)
Group C: Laboratory Activity
Anthropology 101L
Astronomy 140
Biology 109L, 111, 115, 139**, 149 (Fall 2017 or later completion), 190L, 211**, 212, 214, 229**, 239, 249, 259
Chemistry 109**, 115, 119**, 209**, 210, 219** or 219H**, 229
Earth Science 115**
Environmental Studies 259
Geography 101L
Geology 101L, 201
Physical Science 115, 118**
Physics 109**, 210**, 211**, 217**, 227**, 237**, 279**, 289**

AREA 6A - LANGUAGE OTHER THAN ENGLISH
(U.C. ONLY)
Satisfactory completion of two years of high school coursework in one language other than English with grades of "C" or better***;
OR
Completion of one of the following: American Sign Language 110, 111, 112; Chinese 101; French 101, 102, 201, 201H, 202, 202H; Italian 120; Japanese 101, 102; Spanish 101, 101H, 102, 102H, 201, 201H, 202, 202H; Vietnamese 101, 102.
OR
Satisfactory completion, with "C" grades or better, of two years of formal schooling at the sixth grade level or higher in an institution where the language of instruction is not English;
OR
Satisfactory score in examinations of languages other than English as follows:
3 or higher on College Board Advanced Placement Examination, 5 or higher on International Baccalaureate Higher Level Examination; SAT II: Subject Tests (see counselor for required scores); A, B, or C on "0" Level exam; 5, 6, 7 or A, B, or C on "A" Level exam;
OR
Satisfactory completion of an achievement test administered by a college in language other than English equivalent to two years of high school language. If an achievement test is not available, a SAC faculty member may verify competency.

AMERICAN INSTITUTIONS REQUIREMENT
(Not part of IGETC. May be completed prior to transfer.)
CSU has an American Institutions graduation requirement that is separate from IGETC. Courses used to meet the CSU requirement **can** usually also be used in Area 3 or 4. (This is at the discretion of each CSU campus.) To meet the CSU requirement, students should take
Political Science 101** or 101H** **AND** one of the following courses:
History 118, 120**, 120H**, 121**, 121H**, 123, 124**, 124H**,

127, 146.
UC requires the completion of a college course or courses with a grade of "C" or better **OR** a one-year course in high school in U.S. History or a half-year course in U.S. History and a half-year course in American Government with grades of "C" or better (UCLA requires grades of "B"). UCSB requires the completion of a college course. If you are using college coursework to satisfy this requirement, check the appropriate UC catalog to determine which course(s) to take.

*   Courses designated with an asterisk may be counted in one area only.
**   Indicates that transfer credit may be limited by either UC or CSU or both. Please see page 42 for additional information.
*** High School transcript must be on file in the admissions office. Please consult with a counselor for additional information.

COLLEGE CREDIT INSTRUCTIONAL PROGRAMS

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

Required sequences and frequency of course offerings as well as length of time required to obtain a degree or certificate can be found on the college website at: sac.edu/academicaffairs/coursesequences.

CSU-GENERAL EDUCATION

California State University General Education Breadth (CSU-GE): Certificate of Achievement (Transcripted)
Program Code: SAC.CSU.CA

The California State University General Education Breadth (CSU-GE) is a set of courses designed to fulfill all lower-division general education requirements for California State University campuses, as well as lead to a certificate of achievement at Santa Ana College.

To acquire a certificate of achievement it is necessary to complete the CSU General Education Breadth requirements listed in this catalog (Plan B). Courses must have been approved for the CSU-GE area during the term in which the course was completed (approval dates can be verified on www.assist.org). A grade of "C-" or better is required for courses taken in areas A1, A2, A3, and B4.

FIRE ACADEMY

Administrative Fire Services Chief Officer Degree: A.S.
Program Control Number: 10549
Program Code: SAC.FTCO.AS

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

Learning Outcome(s):
1. Meet the occupational standards for California State Fire Training's Chief Fire Officer Certification.
2. Carry out the job performance requirements as listed in NFPA 1021 Standard for Fire Officer Professional Qualifications (2014).
3. Perform the job performance requirements of NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications (2016)

Core Course Requirements		Units: 10
FOT 032	ICS-300 Intermediate ICS	0.5
FOT 150A	Company Officer 2A: Human Resource Management for Company Officers	1
FOT 150B	Company Officer 2B: General Administration Functions for Company Officers	0.5
FOT 150C	Company Officer 2C: Fire Inspections and Investigations	1.5
FOT 150D	Company Officer 2D: All-Risk Command Operations for Company Officers	1.5
FOT 150E	Company Officer 2E: Wildland Incident Operations for Company Officers	1.5
FOT 205	Instructor I: Instructional Methodology	1
FOT 273A	Chief Fire Officer 3A: Human Resource Management for Chief Fire Officers	0.5
FOT 273B	Chief Fire Officer 3B: Budget and Fiscal Responsibilities for Chief Fire Officers	0.5
FOT 273C	Chief Fire Officer 3C: General Administration Functions	0.5
FOT 273D	Chief Fire Officer 3D: Emergency Service Delivery Responsibilities for Chief Fire Officers	1

Electives- In addition, select a minimum of 3.5-13 units from the following list (classes in this area may be substituted with similar classes). Units: 3.5-13

FOT 008A	S-339 Division/Group Supervisor All Risk	0.5
FOT 033	ICS-400 Incident Command	0.5
FOT 044	Fire Investigation 1A: Fire Origin and Cause Determination	0.5
FAC 060A	Basic Fire Academy- Fire Fighter 1A Structure	10
FAC 060B	Firefighter 1B - Hazardous Materials / WMD	1
FAC 060C	Firefighter 1C - Wildland Firefighter 1	2
FTC 102	Fire Behavior and Combustion	3
FTC 103	Principles of Fire and Emergency Services Safety and Survival	3
FTC 104	Fire Prevention	3
FTC 105	Building Construction for Fire Protection	3
FTC 106	Fire Protection Systems	3
FTC 121L	Physical Fitness for Public Safety Personnel - Performance and Assessment	0.3
FTC 121	Physical Fitness for Public Safety Personnel	3
FOT 130A	Fire Inspector 1A: Duties and Administration	1.5
FOT 130B	Fire Inspector 1B: Introduction to Fire and Life Safety	1.5
FOT 130C	Fire Inspector 1C: Field Inspection	1.5
FOT 206	Instructor II: Instructional Development	1
	Total: 13.5-23	

Fire Administration Option: Certificate of Achievement (Transcripted)
Program Control Number: 21797
Program Code: SAC.FTFA.CA

The certificate program in fire administration is designed to prepare students for careers as fire service officers. The program meets requirements of the California State Board of Fire Services Company Officer and college or university preparation. Transcript evaluation may allow up to a maximum of 18 units of credit for previous fire service education.

Learning Outcomes
1. Demonstrate the ability to manage all-risk emergency incidents at the Fire Officer level.
2. Apply leadership and management theories and decision-making models as they relate to the local, state and federal standards and practices.
3. Analyze complex emergency response scenarios and effectively identify strategies and tactics for successful mitigation.

Core Courses - Complete all courses listed below.		Units: 8
FOT 150A	Company Officer 2A: Human Resource Management for Company Officers	1.5
FOT 150B	Company Officer 2B: General Administration Functions for Company Officers	0.5
FOT 150C	Company Officer 2C: Fire Inspections and Investigations	1.5
FOT 150D	Company Officer 2D: All-Risk Command Operations for Company Officers	1.5
FOT 150E	Company Officer 2E: Wildland Incident Operations for Company Officers	1.5
FOT 205	Instructor I: Instructional Methodology	1.5

Core Electives- Complete a minimum of 9 units from the courses listed below.   **Units: 9-10**

FTC 102	Fire Behavior and Combustion	3
FTC 103	Principles of Fire and Emergency Services Safety and Survival	3
FTC 104	Fire Prevention	3
FTC 105	Building Construction for Fire Protection	3
FTC 106	Fire Protection Systems	3
FTC 121	Physical Fitness for Public Safety Personnel	3
FTC 121L	Physical Fitness for Public Safety Personnel - Performance and Assessment	0.3
FAC 060A	Basic Fire Academy- Fire Fighter 1A Structure	10
FAC 060B	Firefighter 1B - Hazardous Materials / WMD	1
FAC 060C	Firefighter 1C - Wildland Firefighter 1	2

Electives - Complete a minimum of 4.8 units from the courses listed below.   **Units: 4.8**

FOT 008A	S-339 Division/Group Supervisor All Risk	0.5
FOT 016	CSFA Terrorism	0.3
FOT 032	ICS-300 Intermediate ICS	0.5
FOT 033	ICS-400 Incident Command	0.5
FOT 044	Fire Investigation 1A: Fire Origin and Cause Determination	0.5
FOT 045	Fire Investigation 1B: Techniques of Fire Investigation	0.5
FAC 062	Basic Incident Command Systems	0.3
FOT 078	S-230 Crew Boss (Single Resource)	0.5
FOT 079	S-404 Safety Officer	0.5
FAC 079B	S-330 Task Force-Strike Leader	0.5
FAC 079D	S-440 Planning Section Chief	0.5
FAC 084A	Hazardous Materials First Responder Operational, Decontamination	0.3
FOT 130A	Fire Inspector 1A: Duties and Administration	1.5
FOT 130B	Fire Inspector 1B: Introduction to Fire and Life Safety	1.5
FOT 130C	Fire Inspector 1C: Field Inspection	1.5
FOT 130D	Fire Inspector 1D: Field Inspector	1
FOT 206	Instructor II: Instructional Development	1.5
FOT 210	Community Risk Educator	1.5

     Total: 21.8-22.8

IGETC-GENERAL EDUCATION

Intersegmental General Education Transfer Curriculum (IGETC): Certificate of Achievement (Transcripted)
Program Code: SAC.IGETC.CA

The Intersegmental General Education Transfer Curriculum (IGETC) is a set of courses designed to fulfill all lower-division general education requirements for California State University and University of California campuses, as well as lead to a certificate of achievement at Santa Ana College.

To acquire a certificate of achievement it is necessary to complete the Intersegmental General Education Transfer Curriculum requirements listed in this catalog (Plan C) with a grade of "C" or better. Courses must have been approved for the IGETC area during the term in which the course was completed (approval dates can be verified on www.assist.org).

MANUFACTURING TECHNOLOGY

CNC Lathe Set Up and Operation Option Degree: A.S.
Program Control Number: 16619
Program Code: SAC.MNGLA.AS

In addition to the general education requirements, the associate degree curriculum in manufacturing technology computer numerical control machine set up and operation is designed to prepare the student for entry or advancement in the CNC Machine Operator Specialty of manufacturing technology.

Learning Outcomes

1. Setup and operate CNC lathe to industrial standards.

Required Courses
Manufacturing Technology Core Courses   **Units: 15**

MNFG 111	Basic Mechanical Blueprint Reading	2
MNFG 114	Geometric Dimensioning and Tolerancing	3
MNFG 153	Technical Mathematics	3
MNFG 158	Basic Machining Concepts and Operations	3
MNFG 171	CNC Program Writing	4

Specific Major Course Requirements: **Units: 12.5-16**

MNFG 096	Manufacturing Technology Lab	0.5-4
MNFG 159	Advanced Turning Concepts and Operations	3
MNFG 176	CNC Turning Center Set Up and Operation	3
MNFG 178	Mastercam Lathe	3
MNFG 186	Advanced CNC Lathe Programming, Setup and Operation	3

Select nine units from the following electives: **Units: 9**

MNFG 103	Solidworks Beginning Solid Modeling	3
MNFG 104	Solidworks Intermediate Solid Modeling	3
MNFG 105	Solidworks Advanced Solid Modeling	3
MNFG 106	Solidworks Drawings	3
MNFG 128	Basic Metals Technology	3
MNFG 173	Mastercam - 2D Geometry, 2D Toolpaths	3
MNFG 174	CNC Milling Center Set Up and Operation	3
MNFG 175	Mastercam - 3D Geometry, 3D Surfaces	3
MNFG 177	Mastercam - 3D Toolpath and CAM Applications	3
MNFG 184	Advanced CNC Mill Set Up and Operation	3
MNFG 194	CNC Horizontal Mill Setup and Operation	3

     Total: 36.5-40

MARKETING

Marketing: Certificate of Achievement (Transcripted)
Program Control Number: 41236
Program Code: SAC.MKTG.CA

The Marketing Certificate program is designed to prepare students for careers in today's marketing field. New career opportunities in marketing will be highlighted throughout the program. The courses include the latest concepts, techniques and technology used to successfully develop, price, promote and distribute products and services in a global economy. The program provides students with cutting-edge applicable marketing skills for New Media Marketing opportunities.

Learning Outcomes

Perform the practical skills needed to work with businesses that have marketing functions.

1. Analyze given products or services for marketing decisions.
2. Describe marketing distribution channels.
3. Make pricing decisions based on market research.
4. Create marketing plans for product promotion and advertising.

Core Course: Units: 9

MKTG 113	Principles of Marketing	3
BUS 222	Business Writing	3
BUS 100	Fundamentals of Business	3
–or–		
ENTR 100	Introduction to Innovation and Entrepreneurship	3

International Marketing Sequence: Units: 3

MKTG 116	Global Marketing: Selling Around the World	3

Advertising & Distribution Sequence: Units: 3

MKTG 128	Advertising and Distribution	3

Sales Sequence: Units: 3

MKTG 129	Sales, Negotiation, and Consumer Behavior	3

21st Century Marketing Sequence: Units: 2

ENTR 105	Social Media, Bootstrapping, and Market Validation	2
	Total: 20	

PHARMACY TECHNOLOGY

Pharmacy Technology Degree: A.S.
Program Control Number: 04230
Program Code: SAC.PHAR.AS

In addition to the general education requirement, the associate degree includes the full-spectrum training required for employment in all pharmacy practice settings. Upon completion of the associate degree, graduates will meet the academic training requirements for licensing with the California State Board of Pharmacy. Graduates will also be well prepared for the Pharmacy Technician Certification Board exam.

The major course requirements for the associate degree consists of the same 20.0 units of coursework listed in the Basic Certificate option, including the units outpatient externship rotation. In addition to completing two additional academic courses (PHAR 057 and PHAR 060), students choosing the associate degree must perform 200 additional hours (3 additional units) of externship, involving rotations in inpatient and sterile products pharmacy services. Students will be placed in the hospital and/or home infusion setting to complete these rotations. Background checks, health screenings, and/or drug testing will be required prior to lab classes. Any required investigations are done at the student's expense. Students are expected to understand and agree to abide by the Program Guidelines, which include technician standards and essential functions for pharmacy technicians.

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

All courses are required to be completed within a 3-year period to be eligible for Pharmacy Technology program enrollment and certificate/degree.

Learning Outcome(s)

1. Apply for the California Board of Pharmacy licensing as a Pharmacy Technician in a timely manner.
2. Construct an effective resume for Pharmacy Technician job interviews, highlighting your advanced technical skills and Associates of Science in Pharmacy Technology.
3. Apply for the Pharmacy Technician Certification Board Exam and complete successfully.

Required Courses: Units: 28-32

PHAR 048	Introduction to Pharmacy Technology	2
PHAR 055	Pharmacy Calculations	2
PHAR 054B	Advanced Pharmacy Calculations	1
PHAR 051	Body Systems I	3.5
–and–		
PHAR 052	Body Systems II	3.5
–and–		
PHAR 056	Pharmacy Operations	4.5
–and–		
PHAR 057	Inpatient Pharmacy Services	2
–and–		
PHAR 060	Sterile Products	4.5
–and–		
PHAR 060L	Pharmacy Technology Skills Lab	0.5-1
–or–		
PHAR 057L	Pharmacy Technology Skills Lab	0.5-1
–or–		
PHAR 056L	Pharmacy Technology Skills Lab	0.5-1
–or–		
PHAR 072L-1	Pharmacy Technology Skills Lab	0.5-1
–or–		
CMST 101H	Honors Introduction to Interpersonal Communication	3
–and–		
CMST 101	Introduction to Interpersonal Communication	3
–or–		
CMST 102	Public Speaking	3
–or–		
CMST 097	American English Conversational Skills	3
PHAR 072A	Pharmacy Technology Externship Outpatient	0.5-2
–and–		
PHAR 072B	Pharmacy Technology Externship Inpatient	0.5-1.5
–and–		
PHAR 072C	Pharmacy Technology Externship Sterile Products	0.5-1

Recommended electives   Units: 0

BIOL 139	Health Microbiology	4
BIOL 149	Human Anatomy and Physiology	4
CHEM 109	Chemistry in the Community	4
CHEM 119	Fundamentals - General and Organic	5
CMPR 100	The Computer and Society	3
PHAR 055	Pharmacy Calculations	2
	Total: 28-32	

PHOTOGRAPHY

Photography Degree: A.A.
Program Control Number: 04224
Program Code: SAC.PHOT.AA

The associate in arts degree in photography provides a foundation in basic photography processes combined with a high level of creative opportunity and individual expression. Enrollment in this program prepares transfer students to enter advanced degree programs at four-year institutions as well as to enter the field of photography in positions such as studio photographer, fashion photographer, museum/gallery photographer, photo journalist, and free lance photographer. Please consult a SAC counselor for information about course requirements for particular four-year institutions.

Learning Outcome(s):
1. Demonstrate visual literacy, including competency in the nonverbal languages of art and design.
2. Demonstrate competency in critical analysis and verbal and written responses to visual phenomena.
3. Possess general knowledge of the monuments, movements and principal artists of major art periods of the past and contemporary thinking on art, design and photography.

Core Courses:		Units: 29.5
ART 102	Survey of Western Art History II: Renaissance to Today	3
–OR–		
PHOT 150	History of Photography	3
ART 110	Two-Dimensional Design	3
ART 124	Gallery Production	2
PHOT 009	Photography Lab	0.5
PHOT 180	Beginning Photography	3
PHOT 185A	Landscape Photography	3
PHOT 191	Commercial Studio Practices	3
PHOT 194	Digital Workflow	3
PHOT 196	Commercial Photography	3
PHOT 291	Wedding and Quinceañera Photography	3
PHOT 292	Portrait Photography	3
Plus 3 units from the following courses:		**Units: 3**
ART 162	Digital Illustration I	3
ART 195	Introduction to Digital Media Arts	3
PHOT 185B	Landscape Photography	3
PHOT 197	Intermediate Commercial Photography	3
PHOT 294	Color Photographic Expression	3
		Total: 32.5

ANNOUNCEMENT OF COURSES

Each course is designated by a number. A descriptive title and the units allowed for the course follow the course number. Courses numbered 100 and above are university parallel courses and are offered for transfer to colleges and universities. See page 40 Transferability of Courses. Courses numbered 100 and above followed by the letter "H" are university parallel courses for transfer to colleges and universities and are offered as part of the Santa Ana College Honors Program. Students enrolling in these courses must meet the designated prerequisites. Courses numbered less than 100 are not designed for transfer. Since these courses are not ordinarily offered in the universities and four-year colleges, they are not always applicable to the requirements for the bachelor of arts or bachelor of science degrees; however, courses numbered below 100 are applicable to the associate degree unless preceded by the letter "N". Courses numbered less than 100 preceded by the letter "N" are not applicable to the associate degree and do not count toward graduation but do count toward course load.

Required sequences and frequency of course offerings as well as length of time required to obtain a degree or certificate can be found on the college website at sac.edu/academicaffairs/coursesequences.

CRIMINAL JUSTICE ACADEMIES (CJA)

CJA 007B
Gangs, Cults, Subcultures, and Hate Crimes
Unit(s): 0.2-0.5 Class Hours: 4.0-10.0 Lecture, 0.0-14.0 Lab total.

Prerequisite: Completion with a grade of "C" or better or a Passing grade in CJA 099A CJA 099A, or POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws, and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guaranteed state regulatory, or licensing agencies will also grant equivalency.

Course is designed to provide peace officers with current instruction on gangs, cults, subcultures, and hate crimes. Course content includes current trends, recent changes in laws, and strategies to address associated criminal activity.
(Pass/No Pass Only)

CJA 009C
Advanced Narcotics Training
Unit(s): 0.2-0.5 Class Hours: 4.0-10.0 Lecture, 0.0-14.0 Lab total.

Prerequisite: Completion with a grade of "C" or better or a Passing grade in CJA 099A; or POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards.

Course is designed to cover all aspects of illegal drug enforcement, including legal updates, search and seizure updates, investigative techniques, and other topics related to the enforcement of controlled substances statutes.
(Pass/No Pass Only)

CJA 010B
Supervision and Leadership
Unit(s): 1.0 Class Hours: 8.0 Lecture, 32.0 Lab total.

Prerequisite: Completion with a grade of "C" or better or a Passing grade in CJA 099A CJA 099A, or POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. NOTE: Approval of equivalent training is not a guaranteed state regulatory or licensing agencies will also grant equivalency.

Course is designed to enhance the professional knowledge of law enforcement supervisors related to leadership, supervisory skills, legal issues, and handling of workplace investigations, in accordance with California POST and STC Standards.
(Pass/No Pass Only)

CJA 011
Field Training Officer
Unit(s): 1.5 Class Hours: 21.0 Lecture, 19.0 Lab total.

Prerequisite: Completion with a grade of "C" or better or a Passing grade in CJA 099A; or POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards.

This course is designed for sworn law enforcement officers assigned to supervise and train new officers. This course meets the requirements for field training officers as defined in POST Regulation 1004.
(Pass/No Pass Only)

CJA 015A
Sergeants Patrol Transition Course
Unit(s): 0.5 Class Hours: 5.0 Lecture, 35.0 Lab total.

Prerequisite: POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/ or STC accreditation standards. POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/ or STC accreditation standards.

Course is designed to prepare a police supervisor to transition to a patrol assignment.
(Pass/No Pass Only)

CJA 016
Vehicle Theft for Patrol and Traffic Officers
Unit(s): 0.3 Class Hours: 2.0 Lecture, 14.0 Lab total.

Prerequisite: POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/ or STC accreditation standards. POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/ or STC accreditation standards.

This course is certified by California Peace Officer Standards and Training (POST) and meets the requirements for advanced officer training in auto theft for patrol and traffic officers. Prior to taking this course students should have formal training and a working knowledge of patrol operations and criminal investigations. The course is presented in cooperation with the Orange County Sheriff's Department.
(Pass/No Pass Only)

CJA 034B
Brady for Law Enforcement
Unit(s): 0.1 Class Hours: 2.0 Lecture, 2.0 Lab total.

Course is designed to provide law enforcement personnel with instruction on the Brady Rule.
(Pass/No Pass Only)

CJA 034C
Law Enforcement Update
Unit(s): 0.2-0.5 Class Hours: 4.0-8.0 Lecture, 0.0-20.0 Lab total.

Prerequisite: Completion with a grade of "C" or better or a Passing grade in CJA 099A; or POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards.

Course is designed to provide both sworn and non-sworn law enforcement personnel with training that is mandated for their continued professional certification and employment. All instruction is either POST or STC certified.

(Pass/No Pass Only)

CJA 039C
Emotional Wellness for Law Enforcement
Unit(s): 0.1 Class Hours: 1.0 Lecture, 3.0 Lab total.

Course is designed to help law enforcement personnel understand the impact and trauma of stress and the methodologies used to cope with various situations.
(Pass/No Pass Only)

CJA 068B
Police Report Writing
Unit(s): 0.1-0.5 Class Hours: 1.0-2.0 Lecture, 7.0-22.0 Lab total.

To develop practical, precise report writing techniques as well as general writing skills applicable to law enforcement.
(Pass/No Pass Only)

CJA 068C
Traffic Collision Investigation
Unit(s): 0.5 Class Hours: 3.0 Lecture, 37.0 Lab total.

This course is designed to provide the student with the knowledge and ability to investigate traffic collisions. Prior to attending the course students should be familiar with the basic skills provided in Learning Domain #29 (Traffic Collision Investigation) from the POST basic police academy.
(Pass/No Pass Only)

CJA 068D
Cybercrime Investigations for First Responders
Unit(s): 0.2 Class Hours: 2.0 Lecture, 6.0 Lab total.

Prerequisite: Completion with a grade of "C" or better or a Passing grade in CJA 099A POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards.

Course is designed to provide law enforcement first responder with the knowledge and ability to respond to a cybercrime incident. Students will learn their role as a first responder, how cybercrimes are committed, identify persons to be interviewed, and how to gather and protect cybercrime evidence. This course is POST certified.
(Pass/No Pass Only)

CJA 069A
Continuing Professional Training for Corrections
Unit(s): 0.2-0.5 Class Hours: 4.0 Lecture, 0.0-20.0 Lab total.

Prerequisite: Completion with a grade of "C" or better or a Passing grade in CJA 099A, or CJA 055B, or CJA 055D, or CJA 069B; or POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards.

Course covers all aspects of correctional officers training as required by the State of California (STC): Policies, legal update, case law, communication skills, transportation, arrest and control, and weapons training.
(Pass/No Pass Only)

CJA 069D
Jail Security for Professional Staff
Unit(s): 0.2 Class Hours: 3.0 Lecture, 5.0 Lab total.

Course is designed to provide non-sworn law enforcement personnel with basic skills to operate in and around a custody facility.
(Pass/No Pass Only)

CJA 069E
Self-Defense Strategies
Unit(s): 0.1 Class Hours: 1.0 Lecture, 7.0 Lab total.

Prerequisite: Ability to legally possess a baton in the State of California. Obtain a medical clearance and medical insurance prior to attending is highly recommended. Ability to participate in strenuous activities such as kneeling, lying in prone position while handcuffed, handcuffing other persons, use of impact weapons, and physically controlling non-compliant or combative persons. Student will be exposed to tear gas and pepper spray. Ability to legally possess a baton in the State of California. Obtain a medical clearance and medical insurance prior to attending is highly recommended.

Course is designed to provide law enforcement personnel with strategies to escape physical attack while working in and around a custody facility.
(Pass/No Pass Only)

CJA 088
Campus Law Enforcement Update
Unit(s): 1.5 Class Hours: 32.0 Lecture, 8.0 Lab total.

Prerequisite: Completion with a grade of "C" or better or a Passing grade in CJA 099A POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards.

This course is designed to expand the knowledge of peace officers working a campus environment. The course will include a history of campus law enforcement, legal authority, laws and liability, responsibility in learning environment, campus conduct, emergency response tactics, and the discipline process as it relates to students. *(Pass/No Pass Only)*

FIRE ACADEMY (FAC)

FAC 018A
Firefighter I Physical Ability Practice (Exam)
Unit(s): 0.1 Class Hours: 1.0 Lecture, 3.0 Lab total.

The Los Angeles County and Orange County Fire Chief's Physical Ability Test is designed to examine the physical ability of the individual when it comes to performing the functions or tasks of a firefighter. Training and practice designed specifically for the fire service and those interested in entering the fire service using the PAT. May not be used to obtain eligibility for the basic fire academy and a certificate will not be issued even if a student achieves a passing time.
(Pass/No Pass Only)

FAC 029
Public Safety Wellness and Fitness-Operation and Safety Training
Unit(s): 2.0 Class Hours: 8.0 Lecture, 95.0 Lab total.

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

FAC 041A
Wildland Reserve Firefighter Academy
Formerly: Reserve Firefighter Academy
Unit(s): 8.0 Class Hours: 144.0 Lecture, 22.0 Lab total.

Provides a basic level of knowledge, skills, and ability among those individuals destined for assignment to a wildland fire crew. Meets fire service requirements for safety. Additional materials fees may apply. Not offered every semester.
(Pass/No Pass Only)

FAC 050
Fire Suppression Training Academy
Unit(s): 20.0 Class Hours: 266.0 Lecture, 294.0 Lab total.

Prerequisite: Concurrent enrollment in FAC 007. Medical exam in accordance with National Fire Protection Association (NFPA) 1582 and FAC 008. Concurrent enrollment in FAC 007. Medical exam in accordance with National Fire Protection Association (NFPA) 1582 and FAC 008.

Basic level of knowledge, skills, and ability among those individuals destined for assignment to a wildland fire crew. Includes EMS and Hazmat First Responder. Meets departmental requirements for safety. Does not meet the requirements of Orange County Fire Chief's Association (OCFCA) or California State Firefighter I criteria. Additional materials fees may apply. Not offered every semester.
(Pass/No Pass Only)

FAC 062A
Strike Team Leader Orientation (ICS)
Unit(s): 0.5 Class Hours: 9.0 Lecture total.

State Office of Emergency Service procedures for fire departments assigned to OES when responding to a mutual aid incident.
(Pass/No Pass Only)

FAC 070
OSFM Fire Fighter I & 2 (2019) Certification
Formerly: Firefighter I Certification Refresher
Unit(s): 0.5-3.0 Class Hours: 8.0 Lecture, 4.0-150.0 Lab total.

Prerequisite: Completion of a Firefighter I academy and application for certification testing Completion of a Firefighter I academy and application for certification testing; or a signed statement by the agency's Fire Chief or designee stating the sponsored student has completed all SFT (State Fire Training) requirements and skills sheets for Firefighter-1 a signed statement by the agency's Fire Chief or designee stating the sponsored student has completed all SFT (State Fire Training) requirements and skills sheets for Firefighter-1; or documentation of approval from the California State Fire Training for a certification retest documentation of approval from the California State Fire Training for a certification retest

Designed for students that have completed previous firefighter training and are seeking to update their credentials to Firefighter 1 or 2 (2019), upgrade to IFSAC (International Fire Service Accreditation Congress)/ProBoard certification or obtain certification for prior training that occurred in a different location. This class also provides required remedial training if required to retake a psychomotor skills examination or a refresher of skills and information needed to prepare for the certification's exams. May be offered concurrently with FAC 060A, 060B or 060C. Authorization from the Fire Technology Office is required for enrollment. Not offered every semester. Materials fee required.
(Pass/No Pass Only)

FAC 071A
Ventilation Review
Unit(s): 0.5 Class Hours: 8.0 Lecture, 8.0 Lab total.

Theory of positive pressure ventilation and panelized roofs; students will participate in walking, sounding, and cutting panelized roofs. A materials fee may be required. Not offered every semester.
(Pass/No Pass Only)

FAC 076
Low Angle Rope Rescue Operational
Unit(s): 0.5-1.0 Class Hours: 12.0 Lecture, 12.0-20.0 Lab total.

The Low Angle Rope Rescue Operational course is designed to provide training for responders in low angle rope rescue operations. These over-the-side operations may be the result of a vehicle accident, hiking mishap, swift water rescue or search and rescue function in an urban or remote area. Materials fee may be required. Not offered every semester.
(Pass/No Pass Only)

FAC 076A
High Angle Rope Rescue
Unit(s): 0.5 Class Hours: 12.0 Lecture, 12.0 Lab total.

Designed to equip the students with information, techniques, and methods for utilizing rope, webbing, hardware, friction devices, and stretchers in high angle/high rise rope rescue situations. Additional materials fees may be required. Not offered every semester.
(Pass/No Pass Only)

FAC 079B
AH-330 Strike Team/Task Force Leader – All Hazards (32 Hours)
Formerly: S-330 Task Force-Strike Leader
Unit(s): 1.0 Class Hours: 22.0 Lecture, 10.0 Lab total.

Prerequisite: ICS-200B: Incident Command Initial Action Incidents ICS-200B: Incident Command Initial Action Incidents; and CICCS qualified Engine Boss, Heavy Equipment Boss or Crew Boss for single resources. CICCS qualified Engine Boss, Heavy Equipment Boss or Crew Boss for single resources.

This course is designed to provide the skills and knowledge needed to perform in the position of Strike Team/Task Force Leader. Topics include position overview; pre-deployment responsibilities; the concept of the position; resource typing standards; pre-dispatch preparation; incident responsibilities; administration; supervision; response; assignment; demobilization; tactics and safety; risk management; entrapment avoidance; WUI; case studies; scenarios; appropriate action vs. freelancing. Designed for: Strike Team/Task Force Leader, All Hazards (STEN/TFLD). Materials fees required. Not offered every semester. (Same as FOT 079C).
(Pass/No Pass Only)

FAC 079D
S-440 Planning Section Chief
Unit(s): 0.5 Class Hours: 4.0 Lecture, 16.0 Lab total.

Prerequisite: Students must be qualified as a Situation Unit Leader (SITL). Students must bring evidence to the first class meeting or be dropped from the class.

Designed to meet a portion of the training needs of the Planning Section Chief Type 2 for wildland fire operations. Topics include information gathering, strategies, meetings and briefings, incident action plans (IAP), interactions, forms, documents, supplies, demobilization, and an optional technology section. Additional fees may be required. Not offered every semester.
(Pass/No Pass Only)

FAC 080B
S-190 Introduction to Wildland Fire Behavior
Unit(s): 0.4 Class Hours: 8.0 Lecture total.

This course provides instruction in the primary factors affecting the start and spread of wildfire and recognition of potentially hazardous situations. It is designed to meet the fire behavior training needs of a Fire Fighter Type 2 (FFT2) on an incident as outlined in the PMS 310-1, Wildland Fire Qualification System Guide and the position task book developed for the position.
Not offered every semester. There may be additional materials fees.
(Pass/No Pass Only)

FIRE OFFICER TRAINING (FOT)

FOT 079C
AH-330 Strike Team/Task Force Leader – All Hazards
Formerly: S-330 TaskForce-Strike Team Leader
Unit(s): 1.0 Class Hours: 22.0 Lecture, 10.0 Lab total.

Prerequisite: ICS-200B: Incident Command Initial Action Incidents ICS-200B: Incident Command Initial Action Incidents; and CICCS Qualified Engine Boss, Heavy Equipment Boss, or Crew Boss for single resources. and CICCS Qualified Engine Boss, Heavy Equipment Boss, or Crew Boss for single resources.

This course is designed to provide the skills and knowledge needed to perform in the position of Strike Team/Task Force Leader. Topics include position overview; pre-deployment responsibilities; the concept of the position; resource typing standards; pre-dispatch preparation; incident responsibilities; administration; supervision; response; assignment; demobilization; tactics and safety; risk management; entrapment avoidance; WUI; case studies; scenarios; appropriate action vs. freelancing. Designed for: Strike Team/Task Force Leader, All Hazards (STEN/TFLD). Material fees may be required. Not offered every semester. (Same as FAC 079B).
(Pass/No Pass Only)

FIRE PUBLIC SAFETY (FSA)

FSA 016A
CA Fire Service Administrative Requirements
Unit(s): 0.5-1.0 Class Hours: 9.0-25.0 Lecture total.

Prerequisite: Completion with a grade of "C" or better or a Passing grade in FAC 060A, and FAC 060B, and FAC 060C.
This course covers the duties and responsibilities of a Firefighter, departmental communications, ethical principles and prevention of sexual harassment. Content is based on the NFPA 1001 Standard for Firefighter Professional Qualifications and the California State requirements for government employees. There may be additional material fees. This course may not be offered every semester. NOTE: Requisite skills and knowledge learned in a basic fire academy will not be retaught.
(Pass/No Pass Only)

FSA 018
Firefighter Survival
Unit(s): 0.4 Class Hours: 4.0 Lecture, 12.0 Lab total.

Recommended Preparation: Students must provide evidence of the following prior to participating in any skill or evolution: Access to approved personal protective equipment; and students must show competency in the use of their SCBA prior to participating in any skill or evolution.
This course provides students with a greater understanding of the need for situational awareness, firefighter survival skills, and the technical survival skills to help firefighters avoid committing fatal errors on the fireground.
(Pass/No Pass Only)

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 Control Number: 31594
Program Code: CEC.HSS.DIPL

The sequence of courses in the High School Subjects, Adult Basic Education, and Learning Support programs is designed to provide a strong foundation of basic skills ranging from elementary levels through secondary subjects, with the purpose of preparing students to earn a high school diploma, obtain employment, pursue vocational training and better job opportunities, and to be prepared to continue into college credit level programs.
Learning Outcome(s)
1. Demonstrate the ability to apply essential academic concepts when transferring to college, entering the workforce, or for personal success.

Requirements

Core Courses:		Credits: 15
HSRDG 089	Reading Proficiency Development	5
HSENG 084	Composition 2	5
LRN 164	Introductory Algebra	5

Electives:		Credits: 145
ABE 018	Leadership Basics, Part 2	0
ABE 023	Adult Basic Education Reading	0
ABE 024	Adult Basic Education Writing	0
ABE 025	Adult Basic Education Math	0
ABE 027	Academic Vocabulary for Language Arts	0
ABE 028	Academic Vocabulary for Math	0
ABE 029	Academic Vocabulary for Science	0
ABE 030	Academic Vocabulary for Social Studies	0
ABE 031	Academic Vocabulary for Technology	0
ABE 044	Leadership Basics Part 1	0
ABE 137	Topics in Adult Basic Education	5
HOMEC 520	HSS Consumer Education	0.5-7.5
HSART 601	Music Theory 1	5
HSART 828	Understanding America Through Art	5
HSART 837	The Film As Art	5
HSENG 065	English Fundamentals 1	5
HSENG 066	English Fundamentals 2	5
HSENG 067	English Fundamentals 3	5
HSENG 068	English Fundamentals 4	5
HSENG 070	The Short Story	5
HSENG 076	The Novel	5
HSENG 083	Composition 1	5
HSENG 085	Composition 3	5
HSENG 096	Building Vocabulary 1	5
HSENG 097	Building Vocabulary 2	5
HSENG 098	Building Vocabulary 3	5
HSENG 701	English 1	5
HSENG 702	English 2	5
HSENG 703	English 3	5
HSENG 704	English 4	5
HSENG 705	English 5	5
HSENG 706	English 6	5
HSENG 707	English 7	5
HSENG 708	English 8	5
HSMTH 151	Principles of Mathematics	5
HSMTH 152	Pre-Algebra	5
HSMTH 154	Pre Algebra A	5

HSMTH 155	Pre Algebra B	5
HSMTH 158	Math Fundamentals 1	5
HSMTH 159	Math Fundamentals 2	5
HSMTH 163	Algebra 1A	5
HSMTH 164	Algebra 1B	5
HSMTH 165	Algebra 2A	5
HSMTH 166	Algebra 2B	5
HSMTH 167	Geometry A	5
HSMTH 168	Geometry B	5
HSMTH 172	Basic Consumer Math 1A	5
HSMTH 173	Basic Consumer Math 1B	5
HSMTH 190	Math for College and Career Readiness	5
HSOTH 740	Spanish 1	5
HSOTH 742	Spanish 2	5
HSOTH 743	Spanish 3	5
HSOTH 744	Spanish 4	5
HSRDG 093	Building Reading Skills 1	5
HSRDG 094	Building Reading Skills 2	5
HSS 010	Learning Skills & Strategies	5
HSS 090	Leadership Basics, Part 1	5
HSS 092	Leadership Basics, Part 2	5
HSS 221	Study Skills 1	5
HSS 222	Study Skills 2	5
HSS 770	Orientation to College	1.5
HSSCI 170	Biology 1A	5
HSSCI 171	Biology 1B	5
HSSCI 185	Earth Science 2	5
HSSCI 190	Physical Science 1	5
HSSCI 191	Physical Science 2	5
HSSCI 192	Basic Science 1	5
HSSCI 196	Health Science	5
HSSCI 198	Human Anatomy & Physiology II	5
HSSOC 215	Introduction to Economics	5
HSSOC 218	U.S. History 1: Colonization to Industrialization	5
HSSOC 219	U.S. History 2: Shaping of Modern America	5
HSSOC 221	Psychology	5
HSSOC 222	Government 1: U.S. Federal Government and Politics	5
HSSOC 224	World Geography 1A	5
HSSOC 225	World Geography 1B	5
HSSOC 228	World History	5
HSSOC 231	Modern World History 1	5
HSSOC 232	Modern World History 2	5
LRN 084	Composition 2	5
LRN 750	Intensive Writing and Grammar	5

Total: 160

Introduction to Information Technology (IT): Certificate of Completion

Program Code: CEC.ITF.CC

Program Control Number: 24384

This certificate is designed to prepare students to obtain entry-level employment in information technology (IT) or pursue higher level training at Santa Ana College. Students have an opportunity to prepare for CompTIA's A+ Certification which is the IT industry standard for validating the foundational skills needed by today's computer support specialist. Students gain basic knowledge in hardware, operating systems, networking, security, and customer service. Hands-on training using computer components and operating systems provide an opportunity for students to enhance their skills in assembling, disassembling, servicing, troubleshooting, and upgrading computer and networking systems. In VBUS 243 Introduction to Customer Service Skills, VBUS 400 Employability Skills, or VESL 520 English for Work 2, students learn soft skills that are beneficial in working in any IT environment. This certificate program is ideal for individuals interested in entering the IT workforce or technology related fields.

Learning Outcomes:

1. Apply the knowledge and skills they gained to start their career pathway in information technology (IT) and/or technology related fields.

Students must pass the following TWO courses:	Credits: 0
VBUS 450	COMPTIA A+ Certification Preparation & Practice	0
VBUS 576	Computer Basics: Systems and Networking Essentials	0

Student must pass ONE of the following courses:	Credits: 0
VBUS 243	Introduction to Customer Service Skills	0
VBUS 400	Employability Skills	0
ESL 520	ESL: English for Work 2	0
	Total: 0

Line Cook: Certificate of Completion

Program Code: CEC.VCOOK.CC

Program Control Number: 39746

This training program prepares students to work as a line cook which is an important job in the restaurant industry. Students are presented with the opportunity to master basic cooking techniques which can be used to create an endless variety of dishes. They learn many aspects of food preparations, and the proper methods of presentation and serving. Students will also be prepared to take both the ServSafe Food Handler and Food Protection Manager Exam which are industry recognized certifications that are in demand by employers. In VBUS 400 Employability Skills or VESL 520 English for Work 2, students learn soft skills that are beneficial in working in any culinary environment. In addition, the program prepares students to transition to Santa Ana College's Culinary Arts Program to continue their training and earn a more advanced certificate and/or degree.

Learning Outcomes

1. Prepare students for employment as line cooks and food preparation workers. In addition, it prepares students for a pathway in culinary careers and transition to Santa Ana College's Culinary Arts Program.

Students must pass the following THREE courses:	Credits: 0
VFOOD 200	Line Cook Training	0
VFOOD 005	ServSafe Food Handler	0
VFOOD 210	ServeSafe Food Protection Manager Certification Exam Preparation, Review, & Practice	0

Students must pass ONE of the following courses:	Credits: 0
VBUS 400	Employability Skills	0
HSMTH 190	Math for College and Career Readiness	5
ESL 520	ESL: English for Work 2	0
	Total: 0-5

QuickBooks - Tier 1: Certificate of Completion

Program Code: CEC.QBT1.CC

Program Control Number: 40514

The QuickBooks - Tier 1 Certificate helps students discover the power of QuickBooks while learning basic accounting concepts through hands-on practice. Upon completion of the certificate program, students gain the skills they need to start their academic and career pathway in accounting. The certificate prepares students for entry-level clerk jobs that utilize QuickBooks. In addition, for small business owners, students will acquire the necessary skills to manage bookkeeping for their business. Students are encouraged to pursue the QuickBooks - Tier 2 Certificate to further develop their QuickBooks skills and knowledge.

Learning Outcome

1. Gain the knowledge and skills they need to start their academic and/or career pathway in accounting. In addition, for small business owners, manage bookkeeping for their business.

Students must complete and pass the following courses:	Credits: 0
VBUS 280	Accounting Terminology	0
–and–		
VBUS 281	Introduction to Quickbooks	0

Students must complete and pass ONE of the following courses:	Credits: 0
VBUS 400	Employability Skills	0
–or–		
ESL 520	ESL: English for Work 2	0
	Total: 0

QuickBooks - Tier 2: Certificate of Completion

Program Code: CEC.QBT2.CC

Program Control Number: 40515

This series of courses prepares students to transition to Santa Ana College's Computerized Accounting-QuickBooks Certificate Program to advance their training. After completing these series of courses and the remaining required courses at Santa Ana College, students will have a fundamental overview of the application and underlying principles of QuickBooks. By obtaining this certificate, they will learn accounting theory and obtain practical knowledge of QuickBooks. Moreover, students will have the knowledge and skills necessary to obtain entry-level clerk jobs that utilize QuickBooks. In VBUS 400 Employability Skills or VESL 520 English for Work 2, students learn soft skills that are beneficial in working in any business environment.

Learning Outcome

1. Gain the knowledge and skills they need to transition to Santa Ana College's Computerized Accounting-QuickBooks Certificate Program to advance their traning in QuickBooks. In addition, for small business owners, to better manage the bookkeeping for their business.

Students must complete and pass ALL of the following courses:	Credits: 0
VBUS 280	Accounting Terminology	0
–and–		
VBUS 281	Introduction to Quickbooks	0
–and–		
VBUS 282	QuickBooks I	0

Students must complete and pass ONE of the following courses:	Credits: 0
VBUS 400	Employability Skills	0
–or–		
ESL 520	ESL: English for Work 2	0
	Total: 0

Vocational Construction Technology: Certificate of Completion
Program Code: CEC.VCNST.CC
Program Control Number: 32681
This program is designed to help students with selecting, applying, obtaining, and succeeding in construction apprenticeships and/or employment opportunities that are appropriate for them. In addition to hands-on experience using various hand and power tools to complete projects, students will receive classroom instruction in basic math, Occupational Safety and Health Administration (OSHA) safety standards, CPR & First Aid, and employability skills.

Learning Outcome:
1. Prepare students with the knowledge and skills to select, obtain, and succeed in construction apprenticeship programs or employment opportunities that are appropriate for them.

Students must complete ALL the following courses: Credits: 0

VBUS 340	Career Exploration	0
VCNST 610	Vocational Construction Technology Module I	0
VCNST 620	Vocational Construction Technology Module II	0
VBUS 400	Employability Skills	0
	Total: 0	

NONCREDIT COURSES

ADULT BASIC EDUCATION (ABE)

ABE 046
Attitudes for Success

Credit(s): 0.0 Class Hours: 72.0-96.0 Lecture total.

This class provides students with classroom discussion and information about attitudes and behaviors that influence success in their personal, educational, and career development. Students may be awarded five high school elective credits if they complete and pass all course assignments and requirements.

Open Entry/Open Exit

CITIZENSHIP (CTZN)

CTZN 020
Citizenship

Credit(s): 0.0 Class Hours: 48.0-96 Lecture total.

Provides basic knowledge and preparation for the United States Citizenship process and naturalization interview including language usage within the context of American history, government and civics.

Open Entry/Open Exit.

ENGLISH AS A SECOND LANGUAGE (ESL)

ESL 120
ESL for Citizenship

Formerly: ESL Civics

Credit(s): 0.0 Class Hours: 72.0-144.0 Lecture total.

Recommended Preparation: Completion with a grade of "C" or better or a Passing grade in ESL 302

Provides development in listening, speaking, reading, and writing English within the context of history and government in preparation for the United States Citizenship examination.

Open Entry/Open Exit

ESL 130
Multilevel English as a Second Language

Formerly: Topics in English as a Second Language

Credit(s): 0.0 Class Hours: 72.0-216.0 Lecture total.

A course using topics of interest to meet the language needs of multilevel English as a Second Language students. Five high school elective credits may be awarded if students pass required course posttests/assessments with 80% or higher.

Open Entry/Open Exit

ESL 300
Literacy

Credit(s): 0.0 Class Hours: 96.0-216.0 Lecture total.

This is an ESL class for students who are not yet literate in English. Emphasizes communicative competence and basic functional language skills to meet immediate communication needs, including verbal and nonverbal strategies.

Develops the ability of second language learners to recognize and read letters and numbers, and copy and produce the alphabet, numerals, and simple personal information.

Open Entry/Open Exit

ESL 301
Beginning Low

Credit(s): 0.0 Class Hours: 96.0-216.0 Lecture total.

For students with some literacy in English. Emphasizes language skills in everyday situations and immediate needs of adult English learners, focusing on listening comprehension and beginning oral production of simple conversations, reading of practiced words and phrases, and completing simple writing tasks in the context of school, work and community.

Open Entry/Open Exit

ESL 302
Beginning High

Credit(s): 0.0 Class Hours: 96.0-216.0 Lecture total.

Emphasizes comprehending and participating in simple conversations, communicating survival needs, and reading and performing written tasks in the context of college, career readiness, and civic participation.

Open Entry/Open Exit

ESL 303
Intermediate Low

Credit(s): 0.0 Class Hours: 96.0-216.0 Lecture total.

Emphasizes comprehending and participating in conversations, communicating needs and opinions, reading from academic and informational text, and performing written tasks. Exposes students to authentic spoken and written content to prepare students for college, the workplace, and civic participation. Five high school elective credits may be granted upon passing the course.

Open Entry/Open Exit

ESL 304
Intermediate High

Credit(s): 0.0 Class Hours: 96.0-216.0 Lecture total.

Emphasizes expanding oral language, critical and creative thinking skills in English, and reading comprehension of authentic academic and informational text. Written tasks focus on academic and workforce preparation, as well as increased community and civic participation. Five high school elective credits may be granted upon passing the course.

Open Entry/Open Exit

ESL 305
Advanced Low

Credit(s): 0.0 Class Hours: 96.0-216.0 Lecture total.

Emphasizes higher-level language skills, reading more complex passages with increased understanding, analysis, and improving academic and informational writing skills. Prepares students for academic and workforce success and civic participation. Five high school elective credits may be granted upon passing the course.

Open Entry/Open Exit

ESL 306
Advanced High

Credit(s): 0.0 Class Hours: 96.0-216.0 Lecture total.

Prepares students for academic and workforce success and civic participation. Emphasizes high-level language skills, conversations that convey complex thought patterns, and reading and writing strategies. This course uses authentic academic, informational, and technical reading materials that expand the use of creative and critical thinking skills. Five high school elective credits may be granted upon passing the course.

Open Entry/Open Exit

ESL 392
Writing and Developing a School Publication

Formerly: Writing and Computers: Developing a School Publication

Credit(s): 0.0 Class Hours: 72.0 Lecture total.

This course offers writing, reading, presentation, and interviewing strategies for students in developing a school publication. Students will work in groups on different sections of the publication and perform research. Publication regulations and requirements will be discussed. Five high school elective credits may be awarded if students pass required course posttests/assessments with 80% or higher.

Open-Entry/Open-Exit

ENGLISH AS A SECOND LANGUAGE (ESL)

ESL 490
Intermediate Writing and Grammar

Formerly: Advanced Writing and Grammar

Credit(s): 0.0 Class Hours: 72.0 Lecture total.

This course will strengthen writing skills with a focus on grammatical tenses, grammar and mechanics and the various sentence combining structures for cohesive paragraph writing. Five high school elective credits may be awarded if students pass required course posttests/assessments with 80% or higher.

Open Entry/Open Exit.

ESL 491
Advanced Grammar Review and Essay Writing

Formerly: Advanced Writing and Grammar

Credit(s): 0.0 Class Hours: 72.0 Lecture total.

This course will provide intensive review and practice on essay writing. It will include topic/thesis statement and organization of complex ideas in body paragraphs by following essay models. The course will review adjective, noun, and adverb clauses, and parallelism in sentences. Five high school elective credits maybe awarded if students pass required course posttests/assessments with 80% or higher.

Open Entry/Open Exit.

ESL 520
ESL: English for Work 2

Formerly: VESL: English for Work 2

Credit(s): 0.0 Class Hours: 96.0-216.0 Lecture total.

Recommended Preparation: Completion with a grade of "C" or better or a Passing grade in ESL 510

Prepares intermediate level non-native English speaking students to enter the workforce or a CE/ vocational program for general or specific occupations. Focuses on communicating in the workplace, job safety, work-related vocabulary skills, workplace culture/issues, career pathways, and vocational readings with emphasis on verbal communication through intermediate language skills instruction.

Open Entry/Open Exit

ESL 530
American English Pronunciation

Credit(s): 0.0 Class Hours: 96.0-216.0 Lecture total.

Recommended Preparation: Completion with a grade of "C" or better or a Passing grade in ESL 303

Develops English language fluency and productive and receptive skills as they relate to sound discrimination, sound inventory, stress, intonation, linking, prominence, and rhythm. The course aims to help students understand English and be understood while functioning within communicative, employment, and academic contexts.

Open Entry/Open Exit

ESL 570
Conversation 1

Credit(s): 0.0 Class Hours: 72.0-144.0 Lecture total.

Recommended Preparation: Completion with a grade of "C" or better or a Passing grade in ESL 304

Introduces intermediate conversational strategies in listening, language use, and nonverbal communication. Presents oral skills necessary for initiating, maintaining. and closing conversations. Emphasis on oral skills that assist in social interactions and expansion of listening and speaking skills.

Open Entry/Open Exit

ESL 580
Conversation 2

Credit(s): 0.0 Class Hours: 72.0-144.0 Lecture total.

Recommended Preparation: Completion with a grade of "C" or better or a Passing grade in ESL 306

Introduces advanced conversational strategies in listening, language use, and nonverbal communication. Presents oral expressions necessary for enhancing conversation and listening skills. Emphasizes differences between formal and informal language based on attitudes and cultures in the United States.

Open Entry/Open Exit

ESL 704
Academic Intermediate Low

Formerly: Academic Beginning A

Credit(s): 0.0 Class Hours: 216.0 Lecture total.

First course of the academic ESL track program developing academic skills through reading short multi-sentence paragraphs supported by visual clues, writing simple sentences on one topic, grammar, listening, and speaking skills with short informational passages. Five high school elective credits may be granted if student passes the course.

Open Entry/Open Exit.

ESL 720
ESL Transition to College Class

Credit(s): 0.0 Class Hours: 72.0-96.0 Lecture total.

This noncredit course prepares students for transition to Santa Ana College by developing language skills, critical reasoning and thinking, academic study skills and student success strategies. Five high school elective credits may be granted upon passing the course.

Open Entry/Open Exit

HS SUBJECTS - OTHER (HSOTH)

HSOTH 740
Spanish 1

Credit(s): 5.0 Class Hours: 72.0 Lecture total.

Spanish 1 is an introduction to Spanish Language and focuses on the four key areas of foreign language study: listening, speaking, reading, and writing. The primary purpose of the course is to prepare students with the foundational skills to communicate effectively in Spanish while being aware of the cultural influences of the Spanish language and Latino heritage at home, in their community, and abroad. Students enrolled in this course will learn basic conversational vocabulary, greetings, the alphabet, numbers, time, and conjugation of present tense verbs. As part of the course, students will engage in reading, writing, listening, and Spanish speaking activities.

Open Entry/Open Exit

HSOTH 742
Spanish 2

Credit(s): 5.0 Class Hours: 72.0 Lecture total.

Spanish 2 builds on the fundamental language elements taught in Spanish 1 and continues to focus on the four language skills: reading, writing, speaking, and listening in the target language.

Through this course, students broaden their knowledge of Spanish grammatical structures and vocabulary allowing them to communicate ideas using various tenses. Students are challenged to further develop their language skills and their comprehension of Spanish. Students will also analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, which allow connections to be made with their own culture.

Open Entry/Open Exit

HSOTH 743
Spanish 3
Credit(s): 5.0 Class Hours: 72.0 Lecture total.

Spanish 3 builds on the fundamental language elements taught in Spanish 2 and expands to focus on the four language skills: reading, writing, speaking and listening in the target language.

Students will elaborate on ideas, ask and answer questions, narrate and describe in sentences and understand short oral and written passages. They will extend their language skills, become more accurate in the language they produce, and comprehend a greater variety of texts and, generate responses, and initiate interactions in the language in ways that are more complex.

They will recognize the interrelatedness of cultural products, practices, and perspectives of Spanish-speaking Countries.
Open Entry/Open Exit

HSOTH 744
Spanish 4
Credit(s): 5.0 Class Hours: 72.0 Lecture total.

Spanish 4 builds on the fundamental language elements taught in Spanish 3 and expands to focus on the four language skills: reading, writing, speaking, and listening in the target language.

This course is designed for students wishing to refine and enhance the language skills and cultural knowledge acquired in the prior years of study. While it is expected that students have been introduced to many of the main concepts of Spanish grammar, we will continue to review and practice these concepts in the context of conversation, reading, and writing. New concepts introduced in level 4 are the Preterite and the Present Progressive tenses.
Open Entry/Open Exit

HIGH SCHOOL SUBJECTS (HSS)

HSS 031
High School Equivalency Test Preparation
Credit(s): 0.0 Class Hours: 72.0-96.0 Lecture total.

Provides pre- and post-testing and individualized prescriptive instruction in preparation for the High School Equivalency exam. Covers test-taking strategies and the essentials of reading, writing, mathematics, science, and social studies.
Open Entry/Open Exit

HSS 035
High School Equivalency Test Preparation - Reading
Credit(s): 0.0 Class Hours: 72.0-96.0 Lecture total.

This course will prepare students for the Reading part of the High School Equivalency Exam. It provides pre- and post-testing individualized prescriptive instruction, direct instructed lessons on the essentials of the exam, and an overview of key test-taking strategies.
Open Entry/Open Exit

HSS 036
High School Equivalency Test Preparation - Writing
Credit(s): 0.0 Class Hours: 72.0-96.0 Lecture total.

This course will prepare students for the Writing part of the High School Equivalency Exam. It provides pre- and post-testing individualized prescriptive instruction, direct instructed lessons on the essentials of the exam, and an overview of key test-taking strategies.
Open Entry/Open Exit

HSS 037
High School Equivalency Test Preparation - Mathematics
Credit(s): 0.0 Class Hours: 72.0-96.0 Lecture total.

This course will prepare students for the Mathematics part of the High School Equivalency Exam. It provides pre- and post-testing individualized prescriptive instruction, direct instructed lessons on the essentials of the exam, and an overview of key test-taking strategies.
Open Entry/Open Exit

HSS 038
High School Equivalency Test Preparation - Social Studies
Credit(s): 0.0 Class Hours: 72.0-96.0 Lecture total.

This course will prepare students for the Social Studies part of the High School Equivalency Exam. It provides pre- and post-testing individualized prescriptive instruction, direct instructed lessons on the essentials of the exam, and an overview of key test-taking strategies.
Open Entry/Open Exit

HSS 039
High School Equivalency Test Preparation - Science
Credit(s): 0.0 Class Hours: 72.0-96.0 Lecture total.

This course will prepare students for the Science part of the High School Equivalency Exam. It provides pre- and post-testing individualized prescriptive instruction, direct instructed lessons on the essentials of the exam, and an overview of key test-taking strategies.
Open Entry/Open Exit

OLDER ADULTS PROGRAM (OAP)

OAP 200
Health and Wellness
Credit(s): 0.0 Class Hours: 72.0 Lecture total.

Provides information and discussion related to current and relevant health and wellness topics. Students will research techniques, decision making and communication skills to enhance learning.
Open Entry/Open Exit

OAP 457
Music Arts for older Adults
Credit(s): 0.0 Class Hours: 72.0 Lecture total.

Provides a positive framework for developing and enhancing music appreciation, vocal and instrumental skill. Emphasis will be on activities designed to encourage creative expression.
Open Entry/Open Exit

OAP 518
Creative Cooking for Older Adults
Credit(s): 0.0 Class Hours: 72.0 Lecture total.

Designed to enhance awareness of current cooking techniques. Demonstrations and lectures include information on basic nutrition and consumer awareness. A variety of cooking appliances and methods are utilized.
Open Entry/Open Exit

OAP 802
Seminar for Older Adults
Credit(s): 0.0 Class Hours: 72.0 Lecture total.

Provides information and a discussion forum related to the examination of concerns common to older adults. Discovers specific needs and interests and examines current news events as interpreted through historical background and current political/regional developments and changes.
Open Entry/Open Exit

OAP 823
Manipulative Skills for Older Adults
Credit(s): 0.0 Class Hours: 72.0 Lecture total.

Concentrates on maintenance and improvement of motor skills and decision making through utilization of a variety of art media and techniques. Provides opportunities for analysis and decision making skills while exercising basic manipulative skills.
Open Entry/Open Exit

VOCATIONAL - AUTOMOTIVE (VAUTO)

VAUTO 670

Preventative Maintenance Inspection

Credit(s): 0.0 Class Hours: 90.0 Lecture total.

This course provides the student with basic knowledge and skills in medium and heavy duty truck maintenance. Safety, inspections, and hands-on practice are emphasized. This course helps students prepare for the T8 ASE exam. Five (5) high school elective credits may be awarded if a student passes the course with a minimum grade of 70%.

Open Entry/Open Exit

VOCATIONAL - BUSINESS (VBUS)

VBUS 270

Introduction to Microsoft Outlook

Credit(s): 0.0 Class Hours: 60.0 Lecture total.

Students learn the basic skills they need to start using Microsoft Outlook to manage their email communications, contact information, calendar events, tasks, and customizing their interface to suit their working style. Email etiquette and avoiding viruses by identifying suspicious emails and attachments is also reviewed. Students may be awarded 4 high school elective credits if they complete and pass all course assignments and requirements.

Open Entry/Open Exit

VBUS 400

Employability Skills

Credit(s): 0.0 Class Hours: 72.0 Lecture total.

Prepares students with the knowledge, work habits, and character traits that are necessary to succeed in the rapidly changing workplace and global economy of the 21st century. Students learn the 21st century soft skills that are critical for the demands of today's work environment. In addition, it teaches workforce preparation such as resume development, cover letter, interview techniques, job search strategies, networking, and elevator speech. Five high school elective credits may be awarded if a student passes the course with a minimum grade of 70%.

Open Entry/Open Exit

VBUS 450

COMPTIA A+ Certification Preparation & Practice

Formerly: Hardware & Software A+ Preparation, Review, Practice

Credit(s): 0.0 Class Hours: 84.0 Lecture total.

Recommended Preparation: Completion with a grade of "C" or better or a Passing grade in VBUS 118, VBUS 258

CompTIA's A+ certification is the industry standard for validating the foundational skills needed by today's computer service technicians. This course prepares students for the certification exam by helping them gain the necessary knowledge of basic computer hardware, operating systems, and networking. Hands-on practice using the latest computer components and operating systems will also provide an opportunity for students to enhance their skills in assembling, disassembling, servicing, troubleshooting, and upgrading computer and networking systems. Students also learn the elements of customer service and communication skills necessary to work with clients. Moreover, practice exams and quizzes are given to reinforce course concepts and exam readiness. Students may be awarded 5 high school elective credits if they complete and pass all course assignments and requirements.

Open Entry/Open Exit

VBUS 559

Business Practices in Family Child Care

Credit(s): 0.0 Class Hours: 36.0 Lecture total.

Provides potential family child care providers with information and skills necessary for successful operation of a family child care business. May earn two high school elective credits if a student passes the course with a minimum grade of 70%.

Open Entry/Open Exit

VBUS 590

Introduction to How to Start a Small Business

Credit(s): 0.0 Class Hours: 72.0 Lecture total.

Provides an introductory series of classes each designed to teach practical, hands-on small business management skills and focusing on specific topics addressing the needs of individuals desiring to start a small business. Course sessions are taught in various languages including, but not limited to, English, Spanish, and Vietnamese. Five high school elective credits may be awarded if a student passes the course with a minimum grade of 70%.

Open Entry/Open Exit

VOCATIONAL – FASHION DESIGN & MERCHANDISING (VFDM)

VFDM 100

Introduction to the Fashion Industry

Credit(s): 0.0 Class Hours: 54.0 Lecture total.

Introduction to the development, structure, and interrelationship of the global fashion industry, including: Consumer characteristics, product design, textile and apparel production, retail merchandising, brand marketing, distribution, and promotion. An introduction to apparel business organizations, their commercial processes and career opportunities. Oral, written, and multimedia reports on current topics relevant to the fashion industry. Students may be awarded 3 high school elective credits if they complete and pass all course assignments and requirements.

Open Entry/Open Exit

VFDM 105

Beginning Sewing

Credit(s): 0.0 Class Hours: 90.0 Lecture total.

Apparel garment construction techniques including seam finishes, edge finishes, manipulating garment fullness, and applying closures. Students will construct three full sized garments and a compilation of construction techniques. Students will conduct and document garment fittings, alter patterns, and apply fitting alterations to the sewn projects. Students may be awarded 5 high school elective credits if they complete and pass all course assignments and requirements.

Open Entry/Open Exit

VOCATIONAL - FOOD (VFOOD)

VFOOD 212

Baking & Pastry Master Class

Credit(s): 0.0 Class Hours: 24.0 Lecture total.

Provides instruction on the fundamentals of pastry making. Students are introduced key preparations that become the building blocks of other, finished pastry dishes. The focus is on various types of dough, custards, and soufflés. Open Entry/Open Exit

VFOOD 214

Bread Making Master Class

Credit(s): 0.0 Class Hours: 24.0 Lecture total.

Provides instruction on gluten, flour, yeast, water, and salt and their functions in bread making.

Students learn how to correctly identify the anatomy of a grain, bread-making tools, and the stages of bread preparation.

Open Entry/Open Exit

VFOOD 216

Cakes and Decorating Master Class

Credit(s): 0.0 Class Hours: 36.0 Lecture total.

Provides instruction on the fundamentals of cake making and decorating. Students are introduced to key preparations that become the building blocks of cake making and cake decorating. The focus is on various types of cakes and decorating techniques.

Open Entry/Open Exit

VFOOD 220

Introduction to Baking & Pastry

Credit(s): 0.0 Class Hours: 90.0 Lecture total.

This course covers fundamental baking skills for students who intend to specialize in baking and pastry making for commercial production. Production of yeast and quick breads, cakes, cookies, pies, and pastries, as well as decorating and icings are undertaken. Gourmet baked items and pastries are produced in a time-restricted quality-minded setting. This course is for students pursuing a career in culinary arts/culinary management, and will prepare students for entry level baking position in the food industry as a baker or pastry chef. Five high school elective credits may be awarded if a student passes the course with a minimum grade of 70%.

Open Entry/Open Exit

VOCATIONAL - HEALTH (VHLTH)

VHLTH 895

Paraprofessional Mental Health Worker I

Credit(s): 0.0 Class Hours: 96.0 Lecture total.

Designed to provide students with basic skills for employment as a Paraprofessional Mental Health Worker. The course includes 48 hours of practicum training supervised by a community- based behavioral health clinic or mental health center. May earn five high school elective credits if a student passes the course with a minimum grade of 70%.

Open Entry/Open Exit