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**COLLEGE CREDIT INSTRUCTIONAL CALENDAR 2019 – 2020**

**FALL SEMESTER 2019**
- August 19-21: Faculty Projects
- August 22-23: Common College Flex Days
- August 26: INSTRUCTION BEGINS
- September 2: Labor Day – holiday
- September 8: Last day to add and to drop full-term classes without “W” grade with enrollment fee refund
- September 13: Deadline for Graduation Petition for Associate Degrees for Transfer (ADT) - only for eVerify
- September 27: Last date to file Pass/No Pass (semester-length courses)
- October 11: Deadline for Degree/Certificate/Certification Petitions
- November 11: Veterans Day – holiday
- November 17: Last day to drop semester-length classes with a “W” grade
- November 28-30: Thanksgiving – holiday
- December 15: INSTRUCTION ENDS
- Dec. 16-Jan 5: Holiday break

**INTERSESSION 2020**
- January 6: INSTRUCTION BEGINS
- January 13: Last day to file Pass/No Pass
- January 20: Martin Luther King’s Birthday – holiday
- February 2: INSTRUCTION ENDS

**SPRING SEMESTER 2020**
- February 3-5: Faculty Projects
- February 6-7: Common College Flex Days
- February 10: INSTRUCTION BEGINS
- February 13: Deadline for Graduation Petition for Associate Degrees for Transfer (ADT) - only for eVerify
- February 14: Lincoln’s Birthday – holiday
- February 17: President’s Day – holiday
- February 23: Last day to add and to drop full-term classes without “W” grade with enrollment fee refund
- March 13: Last date to file Pass/No Pass (semester-length courses)
- March 13: Deadline for Degree/Certificate/Certification Petitions
- March 31: Cesar Chavez Day (observed)
- April 6-12: Spring recess
- May 10: Last day to drop semester-length classes with “W” grade
- May 25: Memorial Day – holiday
- June 4: Commencement – Santa Ana College
- June 5: Commencement – Santiago Canyon College
- June 7: INSTRUCTION ENDS

**SUMMER SESSION 2020**
- June 15: INSTRUCTION BEGINS
- June 26: Deadline for Graduation Petition
- July 3: Independence Day – holiday
- August 9: INSTRUCTION ENDS

**AUGUST 2019**
- S M T W T F S
- 1 2 3
- 4 5 6 7 8 9 10
- 11 12 13 14 15 16 17
- 18 19 20 21 22 23 24
- 25 26 27 28 29 30 31

**SEPTEMBER 2019**
- S M T W T F S
- 1 2 3 4 5 6 7
- 8 9 10 11 12 13 14
- 15 16 17 18 19 20 21
- 22 23 24 25 26 27 28
- 29 30

**OCTOBER 2019**
- S M T W T F S
- 1 2 3 4 5 6 7
- 8 9 10 11 12 13 14
- 15 16 17 18 19 20 21
- 22 23 24 25 26 27 28
- 29 30 31

**DECEMBER 2019**
- S M T W T F S
- 1 2 3 4 5 6 7
- 8 9 10 11 12 13 14
- 15 16 17 18 19 20 21
- 22 23 24 25 26 27 28
- 29 30 31

**JANUARY 2020**
- S M T W T F S
- 1 2 3 4 5 6 7
- 8 9 10 11 12 13 14
- 15 16 17 18 19 20 21
- 22 23 24 25 26 27 28
- 29 30 31

**SUMMER SESSION 2020**
- June 15: INSTRUCTION BEGINS
- June 26: Deadline for Graduation Petition
- July 3: Independence Day – holiday
- August 9: INSTRUCTION ENDS

**AUGUST 2020**
- S M T W T F S
- 1
- 2 3 4 5 6 7 8
- 9 10 11 12 13 14 15
- 16 17 18 19 20 21 22
- 23 24 25 26 27 28 29

**SEPTEMBER 2020**
- S M T W T F S
- 1 2 3 4 5 6 7
- 8 9 10 11 12 13 14
- 15 16 17 18 19 20 21
- 22 23 24 25 26 27 28
- 29 30 31

**OCTOBER 2020**
- S M T W T F S
- 1 2 3 4 5 6 7
- 8 9 10 11 12 13 14
- 15 16 17 18 19 20 21
- 22 23 24 25 26 27 28
- 29 30 31

**NOVEMBER 2020**
- S M T W T F S
- 1 2 3 4 5 6 7
- 8 9 10 11 12 13 14
- 15 16 17 18 19 20 21
- 22 23 24 25 26 27 28
- 29 30 31

**MARCH 2020**
- S M T W T F S
- 1 2 3 4 5 6 7
- 8 9 10 11 12 13 14
- 15 16 17 18 19 20 21
- 22 23 24 25 26 27 28
- 29 30 31

**APRIL 2020**
- S M T W T F S
- 1 2 3 4 5 6 7
- 8 9 10 11 12 13 14
- 15 16 17 18 19 20 21
- 22 23 24 25 26 27 28
- 29 30 31

**MAY 2020**
- S M T W T F S
- 1 2 3 4 5 6 7
- 8 9 10 11 12 13 14
- 15 16 17 18 19 20 21
- 22 23 24 25 26 27 28
- 29 30 31

**JUNE 2020**
- S M T W T F S
- 1 2 3 4 5 6 7
- 8 9 10 11 12 13 14
- 15 16 17 18 19 20 21
- 22 23 24 25 26 27 28
- 29 30 31

**JULY 2020**
- S M T W T F S
- 1 2 3 4 5 6 7
- 8 9 10 11 12 13 14
- 15 16 17 18 19 20 21
- 22 23 24 25 26 27 28
- 29 30 31

**AUGUST 2020**
- S M T W T F S
- 1 2 3 4 5 6 7
- 8 9 10 11 12 13 14
- 15 16 17 18 19 20 21
- 22 23 24 25 26 27 28
- 29 30 31
SANTA ANA COLLEGE  •  sac.edu  •  2019 – 2020

SUMMARY OF CHANGES INCLUDED IN THE SANTA ANA COLLEGE 2019-2020 CATALOG ADDENDUM

THE ASSOCIATE DEGREE:

V. Required Proficiencies

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

A. Reading

The Reading Proficiency will be considered met by earning a C or better in English 101 or English 101H.

INSTRUCTIONAL PROGRAMS

FIRE TECHNOLOGY

Fire Administration Option Degree: AS

Program code: SAC.FTFA.AS
Program Control Number: 10575

The degree program in fire administration is designed to prepare students for careers as fire service officers. The program meets requirements of the California State Board of Fire Services Certified 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. If Fire Technology 121 is completed as an elective with a “C” or better grade and FTC 121L is completed with a “pass,” it may be used to satisfy the requirements of section F of the general education requirements for graduation.

Student must complete the general education requirements as outlined in the appropriate catalog.

Learning Outcome(s):

Upon successful completion of this program, students will be able to:

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.

Required Core Courses: Units: 12.8

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<th>Units</th>
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<tr>
<td>FOT 016</td>
<td>CSFA Terrorism</td>
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<td>FOT 032</td>
<td>ICS-300 Intermediate ICS</td>
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<td>ICS-400 Incident Command</td>
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<td>Company Officer 2A: Human Resource Management for Company Officers</td>
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<tr>
<td>FOT 150B</td>
<td>Company Officer 2B: General Administration Functions for Company Officers</td>
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<tr>
<td>FOT 150C</td>
<td>Company Officer 2C: Fire Inspections and Investigations</td>
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<td>FOT 150D</td>
<td>Company Officer 2D: All-Risk Command Operations for Company Officers</td>
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<td>FOT 150E</td>
<td>Company Officer 2E: Wildland Incident Operations for Company Officers</td>
<td>1.5</td>
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<tr>
<td>FOT 205</td>
<td>Instructor I: Instructional Methodology</td>
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<tr>
<td>FOT 273A</td>
<td>Chief Fire Officer 3A: Human Resource Management for Chief Fire Officers</td>
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<tr>
<td>FOT 273B</td>
<td>Chief Fire Officer 3B: Budget and Fiscal Responsibilities for Chief Fire Officers</td>
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<td>FOT 273C</td>
<td>Chief Fire Officer 3C: General Administration Functions</td>
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<tr>
<td>FOT 273D</td>
<td>Chief Fire Officer 3D: Emergency Service Delivery Responsibilities for Chief Fire Officers</td>
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Core Electives Units: 9

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<td>FTC 102</td>
<td>Fire Behavior and Combustion</td>
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<td>FTC 103</td>
<td>Personal Fire Safety</td>
<td>3</td>
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<tr>
<td>FTC 104</td>
<td>Fire Prevention Technology</td>
<td>3</td>
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<tr>
<td>FTC 105</td>
<td>Building Construction for Fire Protection</td>
<td>3</td>
</tr>
<tr>
<td>FTC 106</td>
<td>Fire Protection Systems</td>
<td>3</td>
</tr>
<tr>
<td>FTC 121</td>
<td>Physical Fitness for Public Safety Personnel</td>
<td>3</td>
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<tr>
<td>FAC 060A</td>
<td>Basic Fire Academy - Fire Fighter 1A Structure</td>
<td>10</td>
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<tr>
<td>FAC 060B</td>
<td>Firefighter 1B - Hazardous Materials / WMD</td>
<td>1</td>
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<tr>
<td>FAC 060C</td>
<td>Firefighter 1C - Wildland Firefighter 1</td>
<td>2</td>
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<td>FTC 121L</td>
<td>Physical Fitness for Public Safety Personnel - Performance and Assessment</td>
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</table>

Total: 21.8

Public Fire Service Option Degree: AS

Program code: SAC.FTPFS.AS
Program Control Number: 08752

Students completing the Public Service Option Degree are prepared for employment as volunteer, paid-on-call, part-time, or full-time firefighters. Through a combination of professional education and technical training, students develop the knowledge and skills needed to perform essential and advanced fireground tasks. Students learn to use, inspect, and maintain firefighting and rescue equipment; and perform basic rescue operations and fire prevention and investigation tasks. As they advance through the program students are provided with numerous opportunities to earn professional certificates and industry-recognized credentials.

Students successfully completing the program receive state, national, and international Firefighter 1 Certification through the California Office of the State Fire Marshal, IFSAC (International Fire Service Accreditation Congress) and Pro Board accrediting agencies.
Major Requirements for A.S. Degree
1. Meet all of the pre-academy requirements listed. Copies of documentation must be submitted to the Fire Technology Office.
   a. Biddle Physical Ability Test - certificate of completion
   b. CPR/First Aid - current certification
   c. NFPA 1582 Medical Clearance - dated within 2 years of academy participation
2. Complete all Fire Technology coursework listed below with a grade of C or better
3. Complete the Fire Academy: FAC 007 and FAC 060A-C with grades of 80% or better.
4. Pass the National Firefighter I Exams.
5. Complete all General Education Coursework.

Learning Outcome(s):
Upon successful completion of this program, students will be able to:
1. Demonstrate the occupational knowledge and technical skills needed to perform the duties of a Fire Fighter I which is based upon NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019) and California State Fire Training’s Fire Fighter 1 (2019).
2. Demonstrate the occupational knowledge and technical skills required to carry out the duties of a Wildland Firefighter, based upon NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2016).

Pre-Academy Requirements
Current Public Safety First Aid and CPR (minimum) as defined by California Health and Safety Code, Section 1797.182
Current National Registry Emergency Medical Technician (NREMT) Certification
NFPA 1582 Medical Clearance from a qualified physician dated within 2 years of Fire Academy participation.
FAC 008 Biddle Physical Ability Test (PAT) 0.1
Current National Registry Emergency Medical Technician (NREMT) Certification
NFPA 1582 Medical Clearance from a qualified physician dated within 2 years of Fire Academy

Required Core Courses:
<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FTC 101 Fire Protection Organization</td>
<td>3</td>
</tr>
<tr>
<td>FTC 102 Fire Behavior and Combustion</td>
<td>3</td>
</tr>
<tr>
<td>FTC 103 Personal Fire Safety</td>
<td>3</td>
</tr>
<tr>
<td>FTC 104 Fire Prevention Technology</td>
<td>3</td>
</tr>
<tr>
<td>FTC 105 Building Construction for Fire Protection</td>
<td>3</td>
</tr>
<tr>
<td>FTC 106 Fire Protection Equipment and Systems</td>
<td>3</td>
</tr>
<tr>
<td>FTC 121 Physical Fitness for Public Safety Personnel</td>
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<td>FTC 121L Physical Fitness for Public Safety Personnel - Performance and Assessment</td>
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Fire Academy Courses
<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>FAC 007 Strength and Conditioning for the Fire Service</td>
<td>15</td>
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<tr>
<td>FAC 060A Basic Fire Academy - Firefighter 1A Structure</td>
<td>2</td>
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<tr>
<td>FAC 060B Firefighter 1B - Hazardous Materials / WMD</td>
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<tr>
<td>FAC 060C Firefighter 1C - Wildland Firefighter 1</td>
<td>2</td>
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</tbody>
</table>

Total: 36.4

Fire Administration Option: Certificate of Achievement (Transcripted)
Program code: SAC.FTFA.CA
Program Control Number: 21797
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 Outcome(s):
Upon successful completion of this program, students will be able to:
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.

Required Core Courses:
<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tr>
<td>FOT 150A Company Officer 2A: Human Resource Management for Company Officers</td>
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<tr>
<td>FOT 150B Company Officer 2B: General Administration Functions for Company Officers</td>
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<tr>
<td>FOT 150C Company Officer 2C: Fire Inspections and Investigations</td>
<td>1.5</td>
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<tr>
<td>FOT 150D Company Officer 2D: All-Risk Command Operations for Company Officers</td>
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</tr>
<tr>
<td>FOT 150E Company Officer 2E: Wildland Incident Operations for Company Officers</td>
<td>1.5</td>
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<tr>
<td>FOT 205 Instructor I: Instructional Methodology</td>
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Core Electives
<table>
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<th>Course</th>
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<tbody>
<tr>
<td>FTC 102 Fire Behavior and Combustion</td>
<td>3</td>
</tr>
<tr>
<td>FTC 103 Principles of Fire and Emergency Services Safety and Survival</td>
<td>3</td>
</tr>
<tr>
<td>FTC 104 Fire Prevention</td>
<td>3</td>
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<tr>
<td>FTC 105 Building Construction for Fire Protection</td>
<td>3</td>
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<tr>
<td>FTC 106 Fire Protection Systems</td>
<td>3</td>
</tr>
<tr>
<td>FTC 121 Physical Fitness for Public Safety Personnel</td>
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</tbody>
</table>
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
Eelectronics 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

Public Fire Service Option: Certificate of Achievement (Transcripted)
Program code: SAC.FTPFS.CA
Program Control Number: 21798
Students completing the Public Service Option Certificate are prepared for employment as volunteer, paid-on-call, part-time, or full-time firefighters. Through a combination of professional education and technical training, students develop the knowledge and skills needed to perform essential and advanced fireground tasks. Students learn to use, inspect, and maintain firefighting and rescue equipment; and perform basic rescue operations and fire prevention and investigation tasks. As they advance through the program students are provided with numerous opportunities to earn professional certificates and industry-recognized credentials. Students successfully completing the program receive state and national Fire Fighter 1 Certification through the California Office of the State Fire Marshal, IFSAC (International Fire Service Accreditation Congress) and Pro Board accrediting agencies.

Major Requirements for Certificate
Fire Academy registration requires the approval of the Fire Technology Office. Prior to registering for the Fire Academy (FAC 060A, 060B or 060C), a student must
1. Open a Student File in the Fire Technology Office after completing FTC 101 and FTC 102 with a grade of C or better.
2. Meet all of the pre-academy requirements listed including. Copies of documentation must be submitted to the Fire Technology Office.
   a. CPR/First Aid - current certification
   b. NREMT- current certification
   c. Biddle Physical Ability Test - certificate of completion
   d. NFPA 1582 Medical Clearance - dated within 2 years of academy participation
3. Complete all Fire Technology coursework listed below with a grade of C or better.

Learning Outcome(s):
Upon successful completion of this program, students will be able to:
1. Demonstrate the occupational knowledge and technical skills needed to perform the duties of a Fire Fighter I which is based upon NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019) and California State Fire Training’s Fire Fighter 1 (2019).
2. Demonstrate the occupational knowledge and technical skills required to carry out the duties of a Wildland Firefighter, based upon NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2016).

Pre-Academy Requirements
Current Public Safety First Aid and CPR (minimum) as defined by California Health and Safety Code, Section 1797.182
Current National Registry Emergency Medical Technician (NREMT) Certification
NFPA 1582 Medical Clearance from a qualified physician dated within 2 years of Fire Academy participation. Units: 0.1
FAC 008  Biddle Physical Ability Test (PAT) 0.1

Required Core Courses:
Units: 21.3
FAC 007  Strength and Conditioning for the Fire Service 2
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
Total: 36.4

Fire Academy Courses
Units: 15
FAC 007  Strength and Conditioning for the Fire Service 2
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
Total: 36.4
ANNOUNCEMENT OF COURSES

CRIMINAL JUSTICE ACADEMY (CJA)

Continued Professional Training for Peace Officers
Unit(s): 0.2-3.0 Class Hours: 4.0-40.0 Lecture, 4.0-40.0 Lab total.
Prerequisite: CJA 099A with a minimum grade of C.
This course updates and advances the student’s existing knowledge and skill set associated with peace keeping and law enforcement. Instruction in evolving issues includes the safe handling of firearms, tactical shooting and movement, ground fighting, chemical weapons, government codes, penal codes, vehicle codes, health and safety codes, welfare and institution codes, and interpersonal and tactical communication, and may include additional topics determined by legislature or regional needs. (Pass/No Pass Only)

CJA 038C
Firearms-Sighting Systems
Unit(s): 0.1 Class Hours: 1.0 Lecture, 3.0 Lab total.
Prerequisite: CJA 099A with a minimum grade of C.
To inform students of the advantages and disadvantages and training considerations related to using a Miniaturized Red Dot Sight on a handgun. (Pass/No Pass Only)

CJA 038D
Weapon Mounted Light Transition Course
Unit(s): 0.1 Class Hours: 1.0 Lecture, 3.0 Lab total.
Prerequisite: CJA 099A with a minimum grade of C.
A Peace Officer Standards and Training course to train peace officers in the use of a weapon mounted light system. (Pass/No Pass Only)

CJA 060
Basic Police Motorcycle Operator Course
Unit(s): 1.5 Class Hours: 9.5 Lecture, 70.5 Lab total.
Prerequisite: CJA 099A with a minimum grade of C.
This course provides the knowledge, skills and proficiency needed to safely operate a police motorcycle during the performance of enforcement duties. The intention of the course is to produce a safe and confident rider for all law enforcement motorcycle duties. (Pass/No Pass Only)

CJA 060A
Motorcycle Instructor Training Course
Unit(s): 1.5 Class Hours: 7.5 Lecture, 72.5 Lab total.
Prerequisite: CJA 060 with a minimum grade of C.
This course is designed to provide experienced motorcycle officers with the knowledge, skill, and proficiency to instruct new motorcycle enforcement officers with the skills and safe practices required to operate a police or Sheriff’s Department motorcycle. (Pass/No Pass Only)

FIRE ACADEMY (FAC)

FAC 060A
Basic Fire Academy- Fire Fighter 1A Structure
Formerly: 060 Basic Fire Academy
Unit(s): 10.0 Class Hours: 84.0 Lecture, 288.0 Lab total.
Prerequisite: FTC 101 and FTC 102 and FTC 103 and FTC 104 and FTC 105 and FTC 106 and FTC 121 and FTC 121L and FAC 008 with a minimum grade of C.
Corequisite: FAC 007
Other: Current CPR Healthcare Provider certification or equivalent; Possession of current NREMT (National Registry Emergency Medical Technician) Certification; NFPA 1582 Medical Clearance dated within two years of the course start date; Fire Technology Department approval.
This course provides the first level of professional training needed to obtain California Fire Fighter 1 (2019) certification. Students will learn the skills and knowledge needed for the entry-level fire fighter to perform structural suppression activities. Key learning concepts include: firefighter safety; communications; cleaning, maintaining, and utilizing equipment and tools; building construction and fire behavior; water supply; ladder operations; forcing entry into a structure; conducting search and rescue operations; attacking an interior structure fire; horizontal and vertical ventilation; property conservation; fire scene overhaul; fire fighter survival; and fire suppression with Class A materials, vehicles, and ground cover. Students are required to complete all applicable certification exams. All Fire Fighter 1 (2019) cognitive exam modules will be delivered through the State Fire Training User Portal. State Fire Training will issue IFSAC and Pro Board accredited certifications to all eligible applicants for California Fire Fighter 1 (2019) certification. Material fees required. Students must rent approved turn-outs and other personal protective equipment from designated vendor. Departmental approval required for enrollment.

FAC 060B
Firefighter 1B - Hazardous Materials / WMD
Unit(s): 1.0 Class Hours: 18.0, 8.0 Lab total.
This course provides the awareness skills and knowledge needed for the entry-level firefighter to recognize and identify hazardous materials and weapons of mass destruction (WMD), isolate hazards and deny entry, and initiate required notification. At the operations level, this course provides the skills and knowledge needed to identify incident scope; select, use, and inspect PPE; perform emergency decontamination; perform assigned tasks at a hazardous materials/WMD incident including product control techniques; and evaluate and report incident progress (2019). A California Firefighter 1 certification contains three levels of Professional Qualifications set by the National Fire Protection Association (NFPA). FF 1B includes the second level of professional qualifications: NFPA 1072: Hazardous Material Awareness and Operations. Material fees required.
FAC 060C
Firefighter 1C - Wildland Firefighter 1
Unit(s): 2.0 Class Hours: 30.0, 34.0 Lab total.
Corequisite: FAC 060A
This course provides the skills and knowledge needed for the entry-level firefighter to recognize hazards and unsafe situations; don, doff, and maintain wild and personal protective equipment; deploy a fire shelter; maintain suppression hand tools and equipment; assemble and prepare for response; construct and secure a fire line; reduce the threat of fire exposure to improved properties; and mop up and patrol a fire area when working with wild land fires. Firefighter 1C, Wildland Course Plan (2016) A California Firefighter 1 certification contains three levels of Professional Qualifications set by the National Fire Protection Association (NFPA). FF1C includes the third level of professional qualifications: NFPA 1051: Wildland Firefighter 1. Material fees required. Students must rent approved turn-outs and other personal protective equipment from designated vendor. Departmental approval required for enrollment.
## CAREER EDUCATION

### Biotechnology: Certificate of Completion
**Program Code:** CEC.VBIOT.CC  
**Program Control Number:** 38684

This series of courses prepares students to transition to Santa Ana College’s Biotechnology Lab Assistant Certificate Program. 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 biotechnology. They will know how to operate and maintain standard laboratory equipment. Students will have the knowledge and laboratory skills necessary to obtain entry level jobs in biotechnology. In VBUS 400 Employability Skills or VESL 520 English for Work 2, students learn soft skills that are beneficial in working in any biotechnological environment.

**Program Learning Outcome(s):**
- Apply the knowledge and skills they gained to start their career pathway in biotechnology.

### Complete and pass the following TWO courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VHLTH 704</td>
<td>Introduction to Biotechnology</td>
<td>0</td>
</tr>
<tr>
<td>VHLTH 705</td>
<td>Introductory Biotech Lab</td>
<td>0</td>
</tr>
</tbody>
</table>

**Total:** 0

### Complete and pass ONE of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VBUS 400</td>
<td>Employability Skills</td>
<td>0</td>
</tr>
<tr>
<td>ESL 520</td>
<td>VESL: English for Work 2</td>
<td>0</td>
</tr>
</tbody>
</table>

**Total:** 0

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### Caregiver/Personal Care Aide: Certificate of Completion
**Program Code:** CEC.CGPCA.CC  
**Program Control Number:** 38621

This program prepares students to assist the elderly, convalescents, or persons with disabilities with daily living activities at the person’s home or in a care facility. In a simulated caregiving environment, students will gain experience performing caregiver duties, which may include nutrition, cleanliness, ambulation, and household activities. In Employability Skills or VESL: English for Work 2, students learn soft skills that are beneficial for working in any health/medical environment.

**Program Learning Outcome(s):**
- Apply the knowledge and skills they gained to obtain entry-level employment as a caregiver/personal care aide and/or start their career pathway in healthcare.

### Complete and pass the following TWO courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VHLTH 109</td>
<td>Introduction to Caregiving</td>
<td>0</td>
</tr>
<tr>
<td>VHLTH 110</td>
<td>Caregiver Training</td>
<td>0</td>
</tr>
</tbody>
</table>

**Total:** 0

### Complete and pass ONE of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VBUS 400</td>
<td>Employability Skills</td>
<td>0</td>
</tr>
<tr>
<td>ESL 520</td>
<td>VESL: English for Work 2</td>
<td>0</td>
</tr>
</tbody>
</table>

**Total:** 0
Hospitality Services: Certificate of Completion

Program Code: CEC.VHOSP.CC
Program Control Number: 38680

The Hospitality Services Certificate allows students to explore careers in hospitality, specifically in food services and hotel/motel/resort front desk; understand the advantages and challenges of each; and use self-assessment tools to determine which is right for them. The program emphasizes customer service and its importance, helping students understand customer behavior and loyalty in a diverse and increasingly global society. Students will also learn techniques and tips for finding work in the hospitality industry. Moreover, in Employability Skills or VESL: English for Work 2, students learn soft skills that are beneficial for working in any hospitality environment.

Program Learning Outcome(s):
Apply the knowledge and skills they gained to obtain entry-level employment and/or start their career pathway in hospitality.

Complete and pass the following TWO courses:

<table>
<thead>
<tr>
<th>Credits</th>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>VHOSP 201</td>
<td>Career Focus - Hospitality Services</td>
</tr>
<tr>
<td>0</td>
<td>VBUS 243</td>
<td>Introduction to Customer Services Skills</td>
</tr>
</tbody>
</table>

Complete and pass ONE of the following courses:

<table>
<thead>
<tr>
<th>Credits</th>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>VBUS 118</td>
<td>Introduction to Windows</td>
</tr>
<tr>
<td>0</td>
<td>VFOOD 005</td>
<td>ServSafe Food Handler</td>
</tr>
</tbody>
</table>

Total: 0

Pharmacy Technology: Certificate of Completion

Program Code: CEC.VPHAR.CC
Program Control Number: 38771

This certificate introduces students to the Santa Ana College Pharmacy Technology program and pharmacy technology careers. As registered School of Continuing Education students, students must pass the Principles of Mathematics course which prepares them with the basic math skills needed to succeed in pharmacy calculation. In Employability Skills or VESL: English for Work 2, students learn soft skills that are beneficial for working in any pharmaceutical environment. The remaining courses to meet the minimum training to apply for the Board of Pharmacy License are to be taken as a student enrolled at Santa Ana College. After completing all the required courses at Santa Ana College, students are primarily prepared for employment.

Program Learning Outcome(s):
Apply the knowledge and skills they gained to start their career pathway in pharmacy technology.

Complete and pass the following TWO courses:

<table>
<thead>
<tr>
<th>Credits</th>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>VHLTH 799</td>
<td>Introduction to Pharmacy Technology</td>
</tr>
<tr>
<td>5</td>
<td>HSMTH 151</td>
<td>Principles of Mathematics</td>
</tr>
</tbody>
</table>

Complete and pass ONE of the following courses:

<table>
<thead>
<tr>
<th>Credits</th>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>VBUS 400</td>
<td>Employability Skills</td>
</tr>
<tr>
<td>0</td>
<td>ESL 520</td>
<td>VESL: English for Work 2</td>
</tr>
</tbody>
</table>

Total: 5
Secretary/Administrative Assistant:
Certificate of Completion
Program Code: CEC.SECAD.CC
Program Control Number: 24390
Secretaries and administrative assistants perform routine clerical and administrative duties. They organize files, prepare documents, schedule appointments, and support other staff. This series of courses helps students prepare for office support positions that might require enhanced keyboarding skills and higher-level office management skills. Secretaries/administrative assistants need a high school diploma or equivalent so students are recommended to earn a diploma/certificate to obtain a position in this profession. High school elective credits may be given for completing VBUS 125, VBUS 244, VBUS 245, VBUS 270, VBUS 304, and VBUS 400 if the student achieves the attendance and proficiency requirements to pass these classes. Secretaries and administrative assistants work in nearly every industry with many employed in schools, hospitals, and government, legal, and medical offices.

Program Learning Outcome(s):
Apply the knowledge and skills they gained to obtain entry-level employment and/or start their career pathway in administrative support.

Complete and pass the following TWO courses:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VBUS 125 Introduction to Keyboarding II</td>
<td>0</td>
</tr>
<tr>
<td>VBUS 270 Introduction to Microsoft Outlook</td>
<td>0</td>
</tr>
</tbody>
</table>

Complete and pass ONE of the following courses:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VBUS 400 Employability Skills</td>
<td>0</td>
</tr>
<tr>
<td>ESL 520 VESL: English for Work 2</td>
<td>0</td>
</tr>
</tbody>
</table>

Complete and pass ONE of the following courses:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VBUS 244 Introduction to Databases Using Microsoft Access</td>
<td>0</td>
</tr>
<tr>
<td>VBUS 245 Introduction to Desktop Publishing Using Microsoft Publisher</td>
<td>0</td>
</tr>
<tr>
<td>VBUS 304 Introduction to Electronic Presentations Using Powerpoint</td>
<td>0</td>
</tr>
</tbody>
</table>

Total: 0

English As A Second Language
Digital Literacy for Academic and Professional Success I: Certificate of Competency
Program Code: CEC.DLAP1.COM
Program Control Number: 39572
his certificate program is designed for ESL students, of all levels, to learn new and/or improve their digital literacy skills. It covers operating systems, word processing applications, e-mail, the internet, online educational applications, social media, and more. Upon completing this program, students will have developed the technical knowledge, language skills, and confidence needed for social and academic growth with the digital literacy to make a successful transition to office technology programs in Career Education.

Program Learning Outcome(s)
Upon completing this program, students will have developed the technical knowledge, language skills, and confidence needed for social and academic growth with the digital literacy to make a successful transition to office technology programs in Career Education.

To obtain this certificate, take TWO courses.

Take one course: Credits: 0

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESL 301 Beginning Low</td>
<td>0</td>
</tr>
<tr>
<td>ESL 302 Beginning High</td>
<td>0</td>
</tr>
<tr>
<td>ESL 303 Intermediate Low</td>
<td>0</td>
</tr>
<tr>
<td>ESL 304 Intermediate High</td>
<td>0</td>
</tr>
<tr>
<td>ESL 305 Advanced Low</td>
<td>0</td>
</tr>
<tr>
<td>ESL 306 Advanced High</td>
<td>0</td>
</tr>
<tr>
<td>ESL 704 Academic Beginning A</td>
<td>0</td>
</tr>
<tr>
<td>ESL 705 Academic Beginning B</td>
<td>0</td>
</tr>
<tr>
<td>ESL 706 Academic Intermediate A</td>
<td>0</td>
</tr>
<tr>
<td>ESL 707 Academic Intermediate B</td>
<td>0</td>
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</tbody>
</table>

Take one course: Credits: 0

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VBUS500 Digital Literacy for Academic and Professional Success - Tier 1</td>
<td>0</td>
</tr>
<tr>
<td>VBUS501 Digital Literacy for Academic and Professional Success - Tier 2</td>
<td>0</td>
</tr>
</tbody>
</table>

Total: 0
Digital Literacy for Academic and Professional Success II: Certificate of Competency

Program Code: CEC.DLAP2.COM

Program Control Number: 39573

This certificate program is designed for ESL students, of all levels, to learn new and/or improve their digital literacy skills. It covers internet safety, online conferencing, blogging, learning management systems, online portfolios, and more. Upon completing this program, students will have developed the technical knowledge, language skills, and confidence needed for social and academic growth with the digital literacy to make a successful transition to office technology programs in Career Education.

Program Learning Outcome(s):

Upon completing this program, students will have developed the technical knowledge, language skills, and confidence needed for social and academic growth with the digital literacy to make a successful transition to office technology programs in Career Education.

To obtain certificate, take TWO courses:

<table>
<thead>
<tr>
<th>Take one course:</th>
<th>Credits:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESL 301 Beginning Low</td>
<td>0</td>
</tr>
<tr>
<td>ESL 302 Beginning High</td>
<td>0</td>
</tr>
<tr>
<td>ESL 303 Intermediate Low</td>
<td>0</td>
</tr>
<tr>
<td>ESL 304 Intermediate High</td>
<td>0</td>
</tr>
<tr>
<td>ESL 305 Advanced Low</td>
<td>0</td>
</tr>
<tr>
<td>ESL 306 Advanced High</td>
<td>0</td>
</tr>
<tr>
<td>ESL 704 Academic Beginning A</td>
<td>0</td>
</tr>
<tr>
<td>ESL 705 Academic Beginning B</td>
<td>0</td>
</tr>
<tr>
<td>ESL 706 Academic Intermediate A</td>
<td>0</td>
</tr>
<tr>
<td>ESL 707 Academic Intermediate B</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Take one course:</th>
<th>Credits:</th>
</tr>
</thead>
<tbody>
<tr>
<td>VBUS 502 Digital Literacy for Academic and Professional Success - Tier 3</td>
<td>0</td>
</tr>
<tr>
<td>VBUS 503 Digital Literacy for Real World Application – Tier 4</td>
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Total: 0