

FIRE SCIENCE CERTIFICATE OF ACHIEVEMENT

This certificate program provides a comprehensive understanding of the skills necessary for successful employment in the Fire Service industry. This program is designed to meet the needs of students interested in seeking entry-level firefighting positions by completing a California State Fire Training Accredited Region Training Fire Academy. Career opportunities include: Seasonal Firefighter, Intern Firefighter, Volunteer Firefighter, and Career Firefighter. A certificate is designed to provide career technical skills; it is not equivalent to an associate degree.

Required Courses – Major

Course Number	Course Name	Units
FSC 111	Fire Protection Organization	3
FSC 112	Fire Behavior & Combustion	3
FSC 113	Fire Protection Equipment & Systems	3
FSC 114	Building Construction for Fire Safety	3
FSC 115	Hazardous Materials Response for Public Safety	3
EMS 135*	Emergency Medical Technician	0 - 7

*Current EMT I license can be substituted for this required course.

Plus 3 additional units selected from the following

Course Number	Course Name	Units
ADJ 150	Public Safety Leadership	3
COMM 211	Intercultural Communication	3
EMS 202	First Aid, Emergency Care, and Cardiopulmonary Resuscitation	3
FSC 50A	Training I: Instructional Methodology	2.5
FSC 50B	Training Instructor IB: Psychomotor Lesson Delivery	2.5
FSC 65	Incident Command System (ICS) 300	1.5
FSC 70A	Company Officer 2A: Human Resources Management for Company Officers	2.5
FSC 70B	Company Officer 2B: General Administrative Functions	1.5
FSC 70C	Company Officer 2C: Fire Inspections and Investigations	2.5
FSC 70D	Company Officer 2D: All-Risk Command Operations	2.5
FSC 70E	Company Officer 2E: Wildland Incident Operations for Company	2.5
FSC 80	Low Angle Rope Rescue Operational	0.5
FSC 81	Surf Rescue Operations	1
FSC 90	Fire Fighter II Academy	19.5
PSYC 208	Psychology of Loss and Death	3
WEE 196	Work Experience Education	1 - 8

Total units required for Certificate

18 – 25

Program Level Student Learning Outcomes:

1. Analyze the causes, stages and methods of extinguishment for fires.
2. Describe fire behavior and urban interface.
3. Identify how climate change impacts fire seasons.
4. Identify laws, regulations, codes, and standards that influence fire operations and fire organizations.

Career Opportunities in FIRE SCIENCE

Completing the Fire Science Certificate Program can lead to a variety of opportunities in firefighting and protection service including but not limited: Seasonal Firefighter, Intern Firefighter, Volunteer Firefighter, Career Firefighter and Emergency Medical Technician.