

FIRE SCIENCE ASSOCIATE OF SCIENCE

The Fire Science Associate of Science program prepares students for a career in fire prevention and protection. Graduates will be eligible for employment in entry-level positions including, but not limited to, firefighter, fire officer, fire investigator, and Emergency Medical Technician.

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 Major Units

18 – 25

Associate Degree Requirements:

- Completion of a minimum of 60 semester units of acceptable college credits; some programs require more than 60 units,
- Overall minimum grade point average of 2.0,
- Minimum grade of “C” for each course in the major, and
- Completion of Mendocino College General Education or Cal-GETC, and Mendocino College Institutional Requirements.

Program Level Student Learning Outcomes:

1. Analyze the causes of fire, determine extinguishing agents and methods of extinguishment, differentiate the stages of fire, and compare methods of heat transfer.
2. Identify and comprehend laws, regulations, codes and standards that influence fire department operations, and identify regulatory and advisory organizations that create and mandate them, especially in the areas of fire prevention, building codes and firefighter health and safety.
3. Describe fire behavior and how urban interface and climate changes impact fire seasons.

Career Opportunities in FIRE SCIENCE

Completing the Fire Science Associates Degree can lead to a variety of opportunities in firefighting and protection service including but not limited to firefighting, defensible space management, fire prevention, fire officer, fire investigator and building inspection and Emergency Medical Technician.