

# FIRE TECHNOLOGY

[firetech.missioncollege.edu](http://firetech.missioncollege.edu)

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## Fire Technology: Associate in Science (AS)

Firefighting is a dynamic public safety profession that requires a wide and ever-changing range of knowledge and skills. Areas of necessary knowledge include safety, fire behavior and suppression, rescue, emergency medical service delivery and operations, hazardous materials, building construction, detection and signaling systems and the incident command system. This program focuses on preparing the student for their first career in the fire service. This program includes educational opportunities for those employed within the fire service, as well as those within volunteer fire agencies. Courses include those required for transfer to four-year colleges, those required to meet eligibility requirements for employment, and those required for incentive salary increases and promotions.

### Program Learning Outcomes:

- Critically analyze and classify hazardous materials and catastrophic events into appropriate categories (fire, medical, hazardous materials, and weapons of mass destruction).100
- Explain the elements of critical assessment for fire and medical emergencies.100
- Analyze, assess, demonstrate the knowledge and appropriate fire extinguishing methods to suppress fires and response to hazardous situations.100
- Analyze, assess, and demonstrate the appropriate medical treatment that is a solution to a given medical problem.100
- Demonstrate in written and oral presentation, or lab exercises, knowledge and application of firefighting and medical equipment.100
- Demonstrate in written and oral presentation, or practical exercises, knowledge and application of firefighting safety clothing and survival techniques.100
- Demonstrate knowledge of building components, fire suppression systems, hazardous materials classifications, fire behavior and combustion, and rescue techniques.

### Career/Transfer Opportunities:

Career opportunities include the following: firefighter, firefighter-EMT, emergency medical technician, fire investigator, fire prevention specialist, fire marshal, deputy fire marshal, fire officer, chief officer, hazardous materials, and public education.

### To earn this degree, students must meet the following requirements:

1. Completion of 60 degree applicable units with an overall GPA of 2.0.
2. Completion of a minimum of 18 semester units in the major with a grade of C (or P) or better.
3. Completion of the AA/AS Graduation Requirements, CSU GE-B or IGETC.

### Core Requirements (27 units):

Complete all of the following		Units
CHM 030A	Fundamentals of Chemistry	4.0
FPT 051	Fire Protection Organization	3.0
FPT 052	Fire Behavior and Combustion	3.0
FPT 053	Fire Protection Equipment and Systems	3.0
FPT 054	Building Construction for Fire	3.0
FPT 055	Fire Prevention Technology	3.0
FPT 056	Hazardous Materials Technology	3.0
MAT 000C	Intermediate Algebra	5.0

### Elective (6 units):

Complete a minimum of six units from the following		Units
KIN 039A	Fire Agility - Introduction	2.0
FPT 057	Rescue Practices	3.0
FPT 060	Wildland Fire Technology	3.0
FPT 061	Fundamentals of Fire Suppression	3.0
FPT 065	Emergency Medical Technician I Theory	6.0
FPT 065C	Emergency Medical Technician 1	0.5
FPT 065L	Emergency Medical Technician Laboratory	1.5
FPT 180	Emergency Medical Technician-I Refresher	2.0

**Required Units for the Major: 33.0**

Completion of General Education Requirements and electives as needed to reach 60 units.

**Total Required Units: 60.0**