

# Fire Science Technology

## General Education (25 Credits)

EN	101	Composition I
EN	102	Composition II
MA	101	College Mathematics I
PS	101	Introduction to Psychology
SC	101	Introduction to Physical Science
SO	101	Introduction to Sociology
CIS	101	Introduction to Computers and Information Processing

3 credits in Humanities

## Courses in Major (33 -34 Credits)

FS	101	Introduction to Fire Science
FS	102	Fire Prevention and Related Codes
FS	201	Fire Service Management
FS	202	Hazardous Materials
FS	204	Fire Protection, Building Construction
FS	206	Fire Hydraulics
FS	210	Current Issues in Fire Science/Capstone Experience

## 12 or 13 Credits from the following\*:

BU	223	Behavior in Organizations
CH	103	Introduction to General and Organic Chemistry
CJ	105	Criminal Investigation
CJ	202	Crisis Intervention

## Sample Program

### First Semester Credits

EN	101	Composition I	3
FS	101	Introduction to Fire Science	3
MA	101	College Mathematics I	3
SC	101	Introduction to Physical Science	4
SO	101	Introduction to Sociology	3
			16

### Second Semester Credits

EN	102	Composition II	3
FS	102	Fire Prevention and Related Codes	3
PS	101	Introduction to Psychology	3
CIS	101	Introduction to Computers & Information Processing	3
		Diversity Course	3
			15

## Fire Science Certificate Program

For employment in the fields of fire fighting and fire prevention and for career and volunteer fire service personnel to advance their knowledge and skills. The credits earned for this certificate may be applied toward the Associate in Applied Science Degree in Fire Science Technology.

### General Education (7 credits)

EN	101	Composition I
SC	101	Introduction to Physical Science

### Courses in Major (24 credits)

FS	101	Introduction to Fire Science
FS	102	Fire Prevention and Related Codes

FS	103	Fire Fighting Tactics & Strategy
FS	106	Fire Protection Systems
FS	107	Fire Apparatus Specifications, Inspections, and Maintenance
FS	205	Fire Investigation
FS	207	Emergency Medical Technician
MA	108	College Algebra
PL	104	Introduction to Law
PL	202	Public Administration

\*Note: We strongly recommend that students seeking to transfer to a degree program in fire science at a four-year college consider taking the following courses:

BU	223	Behavior in Organizations
MA	108	College Algebra
CH	103	Introduction to General and Organic Chemistry
PL	202	Public Administration

### Diversity Requirement (3 Credits)

Diversity course requirements, see pg. 25

### Free Electives (3 Credits)

### Credit for Prior Learning

Students may be awarded academic credit for prior educational experiences. Please consult with the Chairperson of the Human Services Department for further information.

### Third Semester Credits

FS	201	Fire Service Management	3
FS	202	Hazardous Materials	3
CH	103	Introduction to General and Organic Chemistry	4
		Humanities Elective	3
		Fire Science Elective	3
			16

### Fourth Semester Credits

FS	204	Fire Protection, Building Construction	3
FS	206	Fire Hydraulics	3
PL	104	Introduction to Law	3
FS	210	Current Issues in Fire Science/ Capstone Experience	3
		Fire Science, Political Science, or Criminal Justice Elective	3
		Free Elective	3
			18

**Total Credits 64**

## Associate in Applied Science Degree

For those seeking positions as fire protection and prevention specialists, municipal public safety officers, arson investigators, industrial safety inspectors, or fire insurance and fire suppression system salespersons. This degree is also intended for those who seek advancement within their careers in the fire service. Successful completion of this program can lead to eligibility for Fire Inspector certification.

### Graduates should be able to:

- Describe the components of modern fire department responsibility, including emergency incident management, public education, training, resource management, and customer service.
- Perform effective inspections using knowledge of fire safety and enforcement codes.
- Apply the principles of personnel management in order to develop effective leadership techniques.
- Identify and recognize hazardous materials based upon their chemical and physical properties.
- Identify fire patterns, causes, origins, and evidence of arson.
- Detail the appropriate methods of fire fighting for the various types of wood, siding, sheathing, masonry, and steel buildings.
- Evaluate the organization and management of fire service systems.