

Fire Science Technology

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.
- Analyze, assess, and conform to ethical standards as related to the fire science profession.

General Education (25 Credits)

EN 101	Composition I
EN 102	Composition II
MA 102	College Mathematics II
PS 101	Introduction to Psychology
SC 101	Introduction to Physical Science
SO 101	Introduction to Sociology
CIS 101	Computer Concepts and Applications

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
FS 103	Fire Fighting Tactics and Strategy

Sample Program

First Semester Credits

EN 101	Composition I	3
FS 101	Introduction to Fire Science	3
MA 102	College Mathematics II	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	Computer Concepts and Applications	3
	Diversity Course*	3
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*Students transferring to William Paterson University must take SO 102, Institutional Racism. All other students please see page for Diversity Course choices.

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 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, and
PL 202	Public Administration
	Diversity Course*

Free Electives (3 Credits)

Total Credits for Degree 64

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
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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
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FS 202	Hazardous Materials
FS 204	Fire Protection, Building Construction

Fire Science Technology Electives (12 Credits)

Individual selection subject to Chairperson's approval.