

Fire Science Program – Fire Science Option

Degree Type

Associate in Science

This program offers the technical and educational requirements to assist in the development of knowledge required to succeed in the fire protection field. This program is centered on municipal fire protection. Aspects of fire protection in the private sector are also presented.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Learn more about the program and apply at [Associate in Science - Fire Science](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
	CHM106 or CHM109	4
FSC150	Principles of Emergency Services	3
FSC151	Fire Prevention	3
	Fire Science Elective	3

Second Semester

Item #	Title	Credits
	Mathematics/Quantitative Reasoning (or) Natural or Physical Science	3-4
FSC152	Fire Protection Systems	3
	ENL102 or COM103	3
	Fire Science Elective	3
	Fire Science Elective	3

Third Semester

Item #	Title	Credits
FSC153	Building Construction for the Fire Protection	3
FSC155	Fire Behavior and Combustion	3
	PSY101 or SOC106	3
	Fire Science Elective	3
	Elective	3

Fourth Semester

Item #	Title	Credits
FSC154	Principles of Fire and Emergency Service Safety and Survival	3
	Behavioral & Social Sciences	3
	Fire Science Elective	3
	Fire Science Elective	3
	Elective	3
	Total Credits	61-62

Transfer Information

[MassTransfer & more](#)

Career Outlook

Students who plan a career in firefighting or fire safety technology should select this program which is based on the premise that in-service personnel need to study technical improvement and that new recruits must be better qualified to enter fire and safety careers. The coursework in the Fire Science program may be helpful in succeeding in the entrance and promotional exams for the fire service. A sound foundation is provided for continuing into a four-year fire degree program.

Applicants for the Fire Science Program must be able to meet the physical demands and satisfy the behavioral capabilities as outlined in the Program's Technical Standards.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Program Outcomes

Upon completion of the Fire Science program, students are able to:

- Apply principles and current practices of fire protection techniques.
- Use effective communication skills to build relationships with co-workers, supervisors, and members of the community.
- Perform the role of a fire protection officer using established standards, guidelines, and regulations.
- Observe, analyze, assess, and implement an effective operation plan in fire protection and emergency medical service situations.
- Apply principles and practices of specialized technical operations teams.
- Integrate leadership principles to perform roles of increasing responsibility within fire protection and emergency medical service organizations.