Associate in Science

Fire Science Program – Fire Science Option

Students who wish to major in Fire Science must select either the Fire Science Option or Emergency Medical Services Option. Professional education courses are offered evenings only. To graduate in the Fire Science Program- Fire Science Option, a student must complete the following required course of study.

Course #	Course Title	Credits	Prerequisites	Semester Offered	Semester Taken	Grade Earned
First Semester						
ENL101	English Composition I	3	Appropriate scores in Reading Comprehension & in Sentence Skills on CPT or grade of C or better in ENL020 & ENL050 or ESL201	Fall, Spring, Summer		
CHM106 (or) CHM109	Survey of Chemistry (or) Chemistry for the Health Sciences I	4	(MAT020 or MAT025) , ENL020, ENL050 or satisfactory basic skills assessment scores (or) (MAT030 or MAT035), ENL020, ENL050 or satisfactory basic skills assessment scores	Fall, Spring Fall, Spring, Summer		
FSC150	Principles of Emergency Services *(replaces FSC100)*	3	ENL020 and ENL050 or satisfactory basic skills assessment scores	Varies		
FSC151	Fire Prevention *(replaces FSC101)*	3	Co-requisite: FSC150 or FSC100	Varies		
	Fire Science elective	3		Varies		
Second Semester						
	Mathematics/Quantitative Reasoning (or) Physical or Natural Science	3 (or) 4				
FSC114	Fire Company Management	3	FSC150 or FSC100	Varies		
FSC152	Fire Protection Systems *(replaces FSC102)*	3	Co-requisite: FSC150 or FSC100	Varies		
ENL102 (or) COM103	English Composition II (or) Human Communication	3	A grade of C- or higher in ENL101 (or) ENL010 or ESL102 or satisfactory basic skills assessment score	Fall, Spring, Summer		
	Fire Science elective	3		Varies		
Third Semester						
FSC153	Building Construction for Fire Protection *(replaces FSC104)*	3	Co-requisite: FSC150 or FSC100	Varies		
FSC155	Fire Behavior and Combustion	3	Co-requisite: FSC150 or FSC100	Varies		
	Fire Science elective	3		Varies		
	General Education	3				
PSY101 (or) SOC106	General Psychology (or) Principles of Sociology	3	ENL020 & ENL050 or satisfactory basic skills assessment score (or) ENL020 & ENL050 or satisfactory basic skills assessment score	Fall, Spring, Summer		
Fourth Semester						
	Behavioral & Social Sciences	3				
FSC154	Principles of Fire & Emergency Services Safety and Survival	3	FSC150 or FSC100	Varies		
FSC103	Firefighting Tactics and Strategy	3	FSC150 or FSC100	Varies		
	Fire Science elective (2)	6				
Total Credits		**61/62**				

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Fire Science Program – Fire Science Option

Overview

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.

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.

Fire Science Electives

EMS101 Emergency Medical Technician: EMT
EMS201 Advanced Pre-Hospital Training Program: Paramedic I
EMS202 Advanced Pre-Hospital Training Program: Paramedic II
FSC105 Hazardous Materials
FSC107 Hydraulics for the Fire Service
FSC108 Fire Investigation and Evidence
FSC109 Fire Department Management and Planning
FSC110 Fire Codes and Ordinances
FSC130 Shipboard Firefighting
FSC120 Introduction to Incident Management
FSC200 Special Topics in Fire Science

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.