

## Associate in Science Fire Science Program – Fire Science Option

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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
<b>General Education</b>						
COM103	Oral Communication	3	ENL010	every		
ENL101	English Composition I	3	ENL050 or ESL201	every		
ENL102	English Composition II	3	ENL101	every		
CHM106 (or) CHM109	Survey of Chemistry (or) Chemistry for the Health Sciences I	4	MAT020 (or) MAT030	F & S every		
	Fine and Performing Arts (or) Language Arts	3				
	Psychology (or) Sociology	3				
	Mathematics (or) Natural Science	3/4				
<b>Professional Education</b>						
FSC100	Introduction to Fire Protection	3	ENL020, ENL050	evenings		
FSC101	Fundamentals of Fire Prevention	3	FSC100	evenings		
FSC102	Fire Protection Systems and Equipment	3		evenings		
FSC103	Fire Fighting Tactics and Strategy	3	FSC100	evenings		
FSC104	Building Construction for the Fire Service	3	FSC100	evenings		
FSC105	Hazardous Materials	3	CHM106 or CHM101 or CHM109	evenings		
FSC107	Hydraulics for Fire Science	3	MAT030	evenings		
FSC108	Fire Investigation and Evidence	3	FSC100	evenings		
FSC109	Fire Department Management and Planning	3	FSC100	evenings		
FSC110	Fire Codes and Ordinances	3		evenings		
FSC114	Fire Company Management	3	FSC100	evenings		
	Elective**	3				
	Fire Science elective*	3				
<b>Total Credits:</b>		<b>61/62</b>				

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**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 around 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.

**Program Outcomes:** Upon completion of the Fire Science program, students will be 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.

**\* Fire Science Electives:**

EMS101 Emergency Medical Technician: EMT

EMS201 Advanced Pre-Hospital Training Program: Paramedic I

EMS202 Advanced Pre-Hospital Training Program: Paramedic II

FSC120 Introduction to Incident Management

(or) courses that have been approved in advance by both the Fire Science Coordinator and the Academic Dean.

\*\*GIT110 Microcomputer Software Applications is recommended.