## 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 |
|---|---|---|---|---|---|---|
| **General Education** | | | | | | |
| ENL101 | English Composition I | 3 | Appropriate score on the Computerized Placement Test or grade of C or better in ENL050 or ESL201 | Fall, Spring, Summer | | |
| 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 | | |
| PSY101 (or) SOC106 | General Psychology (or) Principles of Sociology*** | 3 | ENL020, ENL050 | Fall, Spring, Summer | | |
| | Behavioral & Social Sciences*** | 3 | | | | |
| CHM106 (or) CHM109 | Survey of Chemistry (or) Chemistry for the Health Sciences I | 4 | MAT020 or satisfactory basic skills assessment scores (or) MAT030 or satisfactory basic skills assessment scores | Fall, Spring<br>Fall, Spring, Summer | | |
| | Mathematics/Quantitative Reasoning (or) Physical or Natural Science | 3 (or) 4 | | | | |
| | General Education**** | 3 | | | | |
| **Professional Education** | | | | | | |
| FSC100 | Introduction to Fire Protection | 3 | ENL020 and ENL050 or satisfactory basic skills assessment score | Fall, Spring | | |
| FSC101 | Fundamentals of Fire Prevention | 3 | FSC100 | Varies | | |
| FSC102 | Fire Protection Systems and Equipment | 3 | | Varies | | |
| FSC103 | Fire Fighting Tactics and Strategy | 3 | FSC100 | Varies | | |
| FSC104 | Building Construction for the Fire Service | 3 | FSC100 | Varies | | |
| FSC105 | Hazardous Materials | 3 | CHM106 or CHM101 or CHM109 | Varies | | |
| FSC107 | Hydraulics for Fire Science | 3 | FSC100 and MAT030 or satisfactory basic skills assessment score | Varies | | |
| FSC108 | Fire Investigation and Evidence | 3 | FSC100 | Varies | | |
| FSC109 | Fire Department Management and Planning | 3 | FSC114 | Varies | | |
| FSC110 | Fire Codes and Ordinances | 3 | | Varies | | |
| FSC114 | Fire Company Management | 3 | FSC100 | Varies | | |
| | Elective** | 3 | | | | |
| | Fire Science elective* | 3 | | | | |
| **Total Credits:** | | **61/62** | | | | |

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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 Dean of Arts and Sciences.

\*\*GIT110 Microcomputer Software Applications is recommended.

\*\*\*General Education requirements corrected (PSY101 (or) SOC106 option, additional Behavioral & Social Sciences). 12/15/2010

\*\*\*\* Revised to General Education (from Humanities and Fine Arts) 2/18/2011