

Fire Science

Continued technical progress and expanded emphasis on fire prevention and fire safety have created increased demands for skilled fire service personnel. This curriculum is designed to serve the needs of Philadelphia firefighters and volunteer firefighters desiring to progress in expertise, skill and rank, as well as of individuals interested in developing competence as fire safety professionals. They may work as fire code enforcement officers, fire protection technicians and designers, fire prevention equipment sales representatives or technical experts, and fire safety officials for businesses and government agencies. The program also prepares high school graduates or those pursuing a career change to become firefighters or enter the expanding fire safety and public safety administration fields. These private sector occupations involve building inspections, code enforcement, fire protection equipment testing, fire investigation and fire prevention.

Most program course offerings are held evening and weekends to accommodate diverse schedules. The program has an articulation agreement with Holy Family University for students desiring to continue study leading to a baccalaureate degree which guarantees students junior standing.

STUDENT LEARNING OUTCOMES:

Upon completion of this program graduates will be able to:

- Demonstrate skills needed for leadership in the fire service or a position in a related field such as code enforcement, pre-fire planning, building inspection, risk management or emergency planning.
- Demonstrate their understanding of fireground strategy and tactics, the occupational risks firefighters face and the health and safety management strategies available to reduce injuries.
- Articulate the requirements for fire detection and suppression systems in various types of buildings.
- Prepare a pre-fire plan for a building using computer-assisted design software to draw floor and site plans.
- Articulate their understanding of the scientific approach to fire investigation as well as the important role that fire investigation and fire prevention programs play in reducing a community's risk of fire.
- Demonstrate their understanding of building construction and hazardous materials.

PROGRAM ENTRY REQUIREMENTS:

This program is open to all interested students. New students are normally required to take College placement tests at their time of entry. Students identified as needing developmental course work must satisfactorily complete the appropriate English and mathematics courses as part of their degree program.

PROGRAM OF STUDY AND GRADUATION REQUIREMENTS:

To qualify for the Associate in Applied Science (A.A.S.) degree in Fire Science, a student must complete a minimum of 62 credits as prescribed and attain a minimum grade point average of 2.0 ("C" average).

FIRE SCIENCE

Course Number and Name	Prerequisites and Corequisites	Credits	Gen Ed Req.
FIRST SEMESTER			
FSCI 104 – Fire Prevention and Building Codes		3	
ENGL 101 – English Composition I		3	ENGL 101
FSCI 111 – Emergency Scene Management		3	
MATH 118 – Intermediate Algebra (or higher)		3	Mathematics
FSCI 142 – Introduction to Occupational Health and Safety For Firefighters		3	
SECOND SEMESTER			
ENGL 102 – English Composition II	ENGL 101	3	ENGL 102, Info Lit
FSCI 181 – Building Construction for Firefighters		3	
CHEM 110 – Introductory Chemistry		4	Natural Science
FSCI 271 – Hazardous Materials		3	
CIS 103 – PC Applications		3	Tech Comp
THIRD SEMESTER			
Social Science Elective		3	Social Sciences
FSCI 172 – Fire Detection and Suppression Systems		3	
FSCI 221 – Fire Prevention and Protection		3	
Foreign Language (first of two semester sequence)		3	Humanities, Am/Global Diversity
PHYS 105 – Survey of Physics		4	
FOURTH SEMESTER			
Social Science Elective		3	
FSCI 281 – Fire Investigation		3	
FSCI 241 – Fire Department Administration		3	
FSCI 291 – Computer Assisted Pre-Fire Planning		3	
Foreign Language (second of two semester sequence)		3	
MINIMUM CREDITS NEEDED TO GRADUATE		62	

General Education Requirements

All General Education requirements are met through required courses (as indicated above) except for the Writing Intensive requirement and the Interpretive Studies requirement. Therefore, in order to graduate, students in this program must choose one course that is designated Writing Intensive one course that is designated Interpretive Studies. The same course may be used to fulfill both requirements. A list of courses that fulfill these requirements and a more detailed explanation of the College's general education requirements appear elsewhere in this Catalog and on www.ccp.edu.

For More Information Contact:

The Division of Liberal Studies, Room BR-21, 1700 Spring Garden Street, Philadelphia, PA 19130, Telephone (215) 751-8450; or the College Information Center (215) 751-8010.