

FIRE SCIENCE TECHNOLOGY, Associate in Applied Science Degree - 6636

Engineering & Technology Department

The Fire Science Technology AAS degree is designed to provide individuals with the technical and professional knowledge required to make decisions regarding fire protection for both the public and private sectors. This curriculum also provides a solid foundation for continuous higher learning in fire protection, administration, and management. This curriculum follows the U.S. Fire Administration/National Fire Academy's Fire and Emergency Services Higher Education (FESHE) Model for Professional Development. The complete program is available at the Harrisburg Campus.

Career Opportunities

Graduates find work in volunteer and paid community fire services and in other governmental, insurance, business, and industrial settings. Job titles include fire fighters, fire safety specialists, industrial safety specialists and underwriters, plan reviewer and code enforcement officers.

Competency Profile

This curriculum is designed to prepare students to:

- Identify the requirements of various fire protection environments and operate the equipment related to those environments
- Recognize the prevention and suppression of hazards by means of building inspections and hazard descriptions; the application of safety codes; and the use of proper procedures for hauling and storing hazardous materials
- Explain the operations of fire extinguishing and warning systems
- Conduct fire investigations
- Manage a fire protection organization through effective use of manpower and equipment

PROGRAM REQUIREMENTS (TOTAL CREDITS = 62)

General Education		Major Requirements		Other Required Courses	
ENGL 110 Foundations in Professional Writing	3	FIRE 101 Principles of Emergency Services	3	CHEM 100 Principles of Chemistry (or)	3
COMM 101 Effective Speaking (or)	3	FIRE 102 Fire Prevention	3	CHEM 113 Chemistry for the Non-Scientist	(3)
COMM 203 Interpersonal Communication	(3)	FIRE 103 Principles of Fire & Emergency Services Safety and Survival	3	CIS 105 Intro to Software for Business	3
Humanities & Arts Elective	3	FIRE 105 Building Construction for Fire Protection	3	Open Elective	<u>3</u>
Mathematics or Science Elective	3	FIRE 106 Fire Behavior and Combustion	3		9
Social & Behavioral Science Elective*	3	FIRE 201 Fire Protection Hydraulics & Water Supply	3		
First-Year-Seminar Elective	1	FIRE 202 Hazardous Materials Chemistry	3		
Wellness	<u>1</u>	FIRE 203 Fire Protection Systems	3		
	17	FIRE 204 Fire Investigation I	3		
		FIRE 207 Educational Methodology	3		
		FIRE 209 Fire & Emergency Services Administration	3		
		FIRE 210 Strategy and Tactics	<u>3</u>		
			36		

*Select from the following courses: ANTH 101 or 205; COMM 253; GEOG 201 or 230; HIST 102; PSYC 229; or SOCI 201, 202, 203 or 205.

RECOMMENDED SEQUENCE FOR FULL-TIME STUDENTS

Part-time students can complete this program by taking one or more courses each semester.

Fall Semester I		Spring Semester I		Fall Semester II		Spring Semester II	
CIS 105	3	COMM 101 or 203	3	FIRE 201	3	FIRE 204	3
ENGL 110	3	CHEM 100 or 113	3	FIRE 202	3	FIRE 207	3
FIRE 101	3	FIRE 102	3	FIRE 209	3	FIRE 210	3
FIRE 103	3	FIRE 105	3	Humanities/Arts Elective	3	Math/Science Elective	3
FIRE 106	3	FIRE 203	3	Open Elective	3	Social/Behavioral Science Elective*	3
FYS Elective	1					Wellness	1