

Fire Protection and Safety Technology A.S.

Program Description

This degree is designed to meet the needs of safety professionals to include fire prevention and industrial hygiene personnel and will intergrate into the Bachelor of Science degree in Fire Protection and Safety Engineering Technology at Oklahoma State University. It will also partially integrate into other bachelor of arts degrees depending on the curriculum requirements. Many of the specialty and elective courses require English, math and chemistry as prerequisites. Completion of these foundational courses is vital to the student that desires to successfully complete the degree. Students who are deficient in any of these areas or any area considered by the Oklahoma State Regents as preparatory classes must take the university placement tests and begin remedial coursework to satisfy all deficiencies with the first 24 college semester hours. Questions regarding course substitutions, degree requirements or fire department pre-employment requirements must be directed to a Fire Protection and Safety advisor. The MATH, CHEM and ENGL courses are foundational to the entire FPST curriculum and are prerequisites for many courses. The MATH, CHEM and ENGL courses should be completed as soon as possible, preferably before the student has completed 25 credit hours in the program.

Employment Information

The Associate of Science Degree in Fire Protection and Safety Technology is designed to meet the requirements of transfer to the Bachelor of Science degree program in Fire Protection and Saffety Engineering Technology at OSU-Stillwater, or other bachelor degree programs, while providing advanced technical training in fields of study relating to fire protection and safety. Individuals already possessing a bachelor's degree can transfer their coursework to OSU-Oklahoma City and usually obtain their Associates of Science in Fire Protection and Safety Technology with the completion of an additional 18-21 credit hours in specialized courses. This allows for career planning related to future job advancement or expansion plans, as well as the upgrading of personal education related job requirements.

Cooperative Agreement

This program is part of a cooperative agreement between OSU-Oklahoma City and Murray State College and Ardmore Higher Education Center.

Technical Occupational Specialty

CHEM	1314	General Chemistry I
CHEM	1515	General Chemistry II
ENGL	1113	English Composition I
ENGL	1213	English Composition II
HIST	1493	U.S. History Since 1865
HUMN	<i>Any 6 credit hours of HUMN equivalent</i>	
MATH	1513	College Algebra
PHYS	1114	General Physics I
POLS	1113	American Government
	<i>Any 6 credits hours of SOC, PSYC or equivalent</i>	

40 Credit Hours

Date	Institution

Specialized Course Requirements

FPST	1213	Fire and Safety Hazards Recognition
FPST	1373	Fire Suppression and Detection Systems
FPST	2023	Introduction to Occupational Safety Techniques
FPST	2143	Structural Designs for Fire and Life Safety
FPST	2243	Design and Analysis of Sprinkler Systems
FPST	2344	Elements of Industrial Hygiene
FPST	2483	Fire Protection Hydraulics and Water Supply Analysis
FPST	2633	Chemistry of Hazardous Material

25 Credit Hours

Total to Graduate

65 Credit Hours

Degree Awarded

Associate in Applied Science

For More Information Contact:

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Fire Protection and Safety Technology

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Cooperative Alliance Services

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Student Name: _____

CWID: _____

Counselor: _____

FPST 1123 INTRODUCTION TO ENVIRONMENTAL MANAGEMENT

This course is a technical overview of the history, terminology and environmental impact issues associated with the petroleum industry. This course helps students prepare for the registered environmental manager exam. Prerequisites: FPST 1813 and FPST 2423.

FPST 1373 FIRE SUPPRESSION AND DETECTION SYSTEMS

Scope of study includes the design, installation, maintenance and utilization of portable fire extinguishing appliances, pre-engineered systems and engineered systems. Fire detection and signaling systems are evaluated for operational capabilities and utilization requirements. Modern principles of fire detection and suppression are applied to practical laboratory problems. Lab: three hours per week. Same as MFP 1373.

FPST 2023 INTRODUCTION TO OCCUPATIONAL SAFETY TECHNIQUES

An examination of specific industrial processes, equipment, facilities and work practices to understand potential hazards and techniques for detecting and controlling such hazards. Lab: three hours per week. Prerequisite: FPST 1213 or consent of instructor.

FPST 2143 STRUCTURAL DESIGNS FOR FIRE AND LIFE SAFETY

Building construction methods are critically examined within the scope of pertinent standards and codes to assure maximum life and property safety from fires, explosions and natural disaster. Lab: three hours per week. Prerequisite: ARCH 1223 or consent of instructor. Same as MFP 2143.

FPST 2243 DESIGN AND ANALYSIS OF SPRINKLER SYSTEMS

Detailed application of current standards of selection, design, installation, operation and maintenance of automatic fire suppression systems. Concurrent laboratory problems stress applicable principles. Lab: three hours per week. Prerequisites: FPST 1373 and MATH 1513 and FPST 2483.

FPST 2344 ELEMENTS OF INDUSTRIAL HYGIENE

A study of toxic or irritating substances, environmental pollution sources and controls, and physical, biological, ergonomic and other occupational stress factors causing employee illness or discomfort. Prerequisite: CHEM 1314 or CHEM 1214 or CHEM 1104.

FPST 2633 CHEMISTRY OF HAZARDOUS MATERIALS

Basic chemistry of hazardous materials to include fire/safety concerns and techniques to recognize, evaluate and control potential hazards. Lab: two hours per week. Prerequisites: FPST 1213 and CHEM 1314 or CHEM 1214 or CHEM 1104 or consent of instructor.

FPST 2483 FIRE PROTECTION HYDRAULICS AND WATER SUPPLY ANALYSIS

A study of the mechanics of fluid flow through hoses, pipes, pumps and fire protection appliances. Water supply and distribution facilities are analyzed by hydraulic calculations and applied testing techniques to detect anomalies in design or performance capabilities. Lab: three hours per week. Prerequisite: FPST 1373 and MATH 1513.