



**OKLAHOMA STATE UNIVERSITY**

**College of Engineering, Architecture & Technology**

# Fire Protection and Safety **TECHNOLOGY**

Thousands of people are killed or injured and billions of dollars of property are lost to the ravages of fire each year in the United States. Additionally, billions of dollars are lost from corporate profits due to accidents, injuries, occupational health problems and hazardous materials incidents. Although commonplace, these losses need not be accepted as inevitable. The number of lives lost, injuries sustained, buildings destroyed, and monetary losses could be reduced or prevented. This is what Fire Protection and Safety Technology at Oklahoma State University is all about — reducing losses. In a single phrase, Fire Protection and Safety Technology emphasizes loss control.

The Fire Protection and Safety Technology program was established at Oklahoma State University in 1937.

The curriculum is designed to immediately introduce the student to studies in fire protection and safety engineering. Therefore, students are able to measure early in their academic program their interest in fire protection and safety engineering as a career. The curriculum is rigorous in the areas of mathematics and physical sciences. Two semesters of calculus are required as well as two semesters of chemistry. Courses addressing the practical application of physics are integrated throughout the program. Interested high school students should design their high school programs to prepare themselves for college level mathematics and science classes.

## STUDENT ACTIVITIES

Students enrolled in the Fire Protection and Safety Technology program have opportunities to participate in a number of student organizations and activities. Student chapters of national organizations such as the American Society of Safety Engineers and the Society of Fire Protection Engineers are active on campus. Student membership with the National Fire Protection Association and the American Industrial Hygiene Association are also encouraged. Unique to Oklahoma State University, are the Fire Protection Society and the Student Association of Arson Investigators, which provide students with public service opportunities, opportunities for academic and professional development, and social interaction with other students in the fire protection and Safety Technology program.

## FIRE PROTECTION & SAFETY TECHNOLOGY GRADUATES

The graduates of the Fire Protection and Safety Technology program at Oklahoma State University are constantly recruited by the major businesses and industries of the United States. Historically, nearly 100% of the graduating seniors find positions as fire protection and safety engineering specialists with many receiving several offers of employment. The general loss-control emphasis of the program continues to make FPST graduates widely sought after by industries hoping to reduce fire and safety losses.

## CAREER OPPORTUNITIES

The Fire Protection and Safety Technology Program at Oklahoma State University is the only accredited baccalaureate degree program of its type in the United States. For this reason, the employer competition for OSU graduates has boosted salary levels to a point where they compare favorably with any career field. Graduates have also shown a tendency toward rapid advancement into managerial positions.



## FOR CAREER INFORMATION

Oklahoma State University  
Fire Protection and Safety Technology  
499 Cordell South  
Stillwater, OK 74078-8017  
(405) 744-5721  
[www.fpst.okstate.edu](http://www.fpst.okstate.edu)



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# Fire Protection and Safety TECHNOLOGY

**Partial list of employers of OSU Fire Protection and Safety Technology Graduates:**

- General Motors Corporation
- Union Carbide Company
- Steelcase
- Celanese Corporation
- Consumers Power Corporation
- Hartford Insurance
- ExxonMobil Oil Company
- Hallmark Cards, Inc.
- Citgo Petroleum Corporation
- Control Fire Systems
- Disneyland
- Frito-Lay, Inc.
- Halliburton
- Hernandez Engineering
- Lucent Technologies
- Notifier Corporation
- ConocoPhillips Petroleum
- Phoenix Fire Dept.
- Tennessee Valley Authority
- Sandia National Laboratories
- Battelle, Inc.
- Boeing Corporation
- American Airlines
- M & M Protection Consultants
- International Paper Company
- CNA Insurance
- National Fire Protection Assoc.
- American Can Company
- Royal Insurance
- Intel, Inc.
- Factory Mutual
- Brown & Root Engineering
- Tyco Fire Protection
- Mason & Hanger Company
- Alcoa
- Walter Kidde
- Wasau Insurance
- NASA
- OGE Energy Resources
- Enogex
- Poole Fire Protection
- The RJA Group, Inc.
- Sako & Associates
- Gary-Williams Energy Corporation
- Chevron Phillips Chemical Company
- The Viking Corporation

## TYPICAL FOUR-YEAR PLAN

### FRESHMAN YEAR

Fall Semester		
FPST	1213	Fire & Safety Hazards Recognition
MATH	1613	Trigonometry
CHEM	1314	General Chemistry I
ENGL	1113	Freshman Composition I
ENGR	1111	Introduction to Engineering
HIST	1103	American History
	16	CREDIT HOURS
Spring Semester		
FPST	1373	Fire Suppression & Detection Sys
MATH	2123	Calculus for Technology Programs I
CHEM	1515	General Chemistry II
ENGR*	1322	Engineering Design Graphics
ENGR	1412	Engineering Computer Programming
	15-17	CREDIT HOURS

### SOPHOMORE YEAR

Fall Semester		
FPST	2023	Occupational Safety Techniques
FPST	2483	Fire Protection Hydraulics
PHYS	1114	General Physics I
MATH	2133	Calculus for Technology Programs II
POLS	1113	American Government
	16	CREDIT HOURS
Spring Semester		
FPST	2344	Industrial Hygiene
FPST	2243	Sprinkler System Design
ENSC	2113	Statics
STAT	2013	Statistics
SPCH	2713	Speech Communications
	16	CREDIT HOURS

### JUNIOR YEAR

Fall Semester		
FPST	3373	Fire Dynamics
PHYS	1214	General Physics II
FPST	3143	Structure Design/Fire Safety
ENSC	2213	Thermodynamics
(H)	xxx3	Humanities Elective
	16	CREDIT HOURS
Spring Semester		
(CE)	xxx3	Controlled Elective
(SE)	xxx3	Specialty Elective
FPST	4403	Hazardous Materials Incident Mgmt
(CE)	xxx3	Controlled Elective
ENGL	3323	Technical Report Writing
	15	CREDIT HOURS

### SENIOR YEAR

Fall Semester		
FPST	4143	Industrial Vent & Smoke Control
(SE)	xxx3	Specialty Elective
MGMT	3013	Management
FPST	3013	Industrial Safety Organization
(H)	xxx3	Humanities Elective
	15	CREDIT HOURS
Spring Semester		
(CE)	xxx3	Controlled Elective
FPST	4993	Advanced Fire/Safety Problems
FPST	4684	Industrial Loss Prevention
FPST	4333	System Safety Analysis
(S)	xxx3	Social Sciences Elective
	16	CREDIT HOURS

### General Education Requirements

Students in Engineering, Architecture and Technology must complete at least six credit hours of courses designated as (H) and six credit hours of course work designated (S). The student must also satisfy the international dimension requirement either by taking a course designated (I) or by approved international experience and complete a diversity (D) course. If this course work is taken at Oklahoma State University, the course must have been designated as (H), (S) and/or (I) respectively at the time it was taken. If one or more of the courses were taken at another institution the course must transfer as equivalent to an Oklahoma State University course that was designated (H), (S) and/or (I) respectively at the time that the transfer course was taken. Engineering students should verify their course selections in these categories with advisers in the CEAT Office of Student Academic Services before enrollment.

\*Note: FPST Department Advise All FPST Students to Enroll into: CMT 2203 Construction Drawings. Principles of graphic communication are applied to reading and drawing construction plans, with emphasis to fire protection systems. This course is offered only online.

### Transfer Credit Evaluation

Transfer credit evaluation in the Office of Undergraduate Admissions determines acceptable transfer credit on a course-by-course basis for college-level credit earned at institutions who are fully accredited by any of the six US regional associations. The evaluation is based on course content, as described in the catalogs of those institutions and in consultation with appropriate academic units at OSU. All transferred courses are recorded on the student's academic record. No part of the previous collegiate record may be disregarded. Courses completed at institutions located outside of the US will be reviewed for transfer credit based on US regional accreditation standards or post-secondary recognition in the country for which the institution is located. It is highly recommended that the program requirements and course syllabi be submitted for all courses completed overseas.