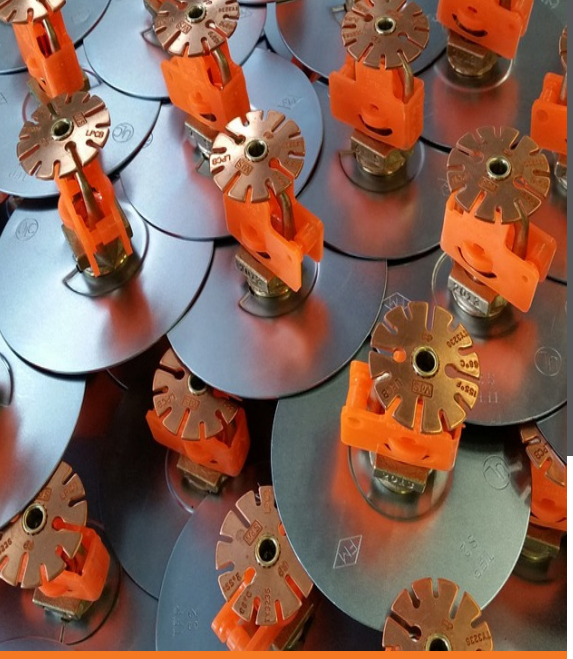

Fire Protection & Safety Engineering Technology

Program Emphasis

The fire protection and safety engineering technology (FPST) curriculum provides preparation for assessing and reducing the loss potential with respect to fire, safety, industrial hygiene, and hazardous material incidents. With respect to fire, reducing the loss potential might involve setting design criteria with a special emphasis on life safety or fire resistivity or specifying automatic detection or extinguishing systems. When considering safety, reducing accidents may require special protective equipment or clothing, or the redesign of machinery or processes. Reducing losses caused by environmental problems may require sampling air for contaminants, such as asbestos or toxic chemicals, or monitoring noise levels, and the development of procedures to address practical approaches to comply with state and federal regulations. Addressing the problems of handling and disposing of hazardous chemicals, such as spill control, is often required. Managing risk and compliance with federal laws and regulations relative to occupational safety and health and hazardous materials is an increasingly important job activity.

The fire protection and safety engineering technology program began at Oklahoma State University in 1937. The demand by business and industry for loss control specialists has resulted in the evolution of the program into one that now places emphasis on fire protection, safety, and occupational/environmental health. The FPST program prepares graduates for careers in loss control. The loss control profession is segmented into three major areas: loss from fire, loss from physical accidents, and loss from environmental exposure.

Career Opportunities

Profession in, but not limited to, the design, construction, manufacturing, utilities or other technical fields with the following possible job titles:

Fire Protection Engineer – Safety Specialist Engineer – Risk Engineer – Sprinkler Design – Safety Coordinator – Environmental Health & Safety Specialist – Building Inspector – Code Enforcement and Plan Reviewer – Fire Inspector – Fire Marshall – Environmental Health & Safety Engineer – Hazardous Materials Specialist – Industrial Hygienist – Loss Control Specialist

Type of Degree

Bachelor of Science
in Engineering Technology

Accreditation

Engineering Technology
Accreditation Commission of ABET

Qualified Academic Program
through the Board of Certified Safety Professionals

Salary Range

$52,000 - $84,000
Average Salary: $66,000

Student Organizations and Competition Teams:

- American Society of Safety Professionals
- Fire Protection Society
- Firefighter Combat Challenge
- Society of Fire Protection Engineers

The mission of Fire Protection & Safety Engineering Technology is to prepare graduate for graduation and careers in, but not limited to design, construction, manufacturing, utilities, and other technical fields.

Fire Protection & Safety Engineering Technology
fpst.okstate.edu

COLLEGE OF
Engineering, Architecture and Technology

DRAFT - Issued 2018




Typical Four-Year Curriculum

FRESHMAN YEAR

Fall Semester

CHEM	1414	General Chemistry I
FPST	1213	Fire Safety Haz Recon
MATH	2123	Tech Calc I
HIST	1103	American History
ENGL	1113	Fresh Comp I

Spring Semester

POLS	1113	American Government
FPST	1373	Fire Supp & Det Sys
ENGR	1322	Graphics Design
MATH	2133	Tech Calc II
XXXX	XXXX	“H” elective
XXXX	XXXX	“A” or “N” elective

SOPHOMORE YEAR

Fall Semester

FPST	2483	Fluid Mechanics for Fire Protection
FPST	2023	Occup Safety Techn
STAT	2013	Statistics
PHYS	1114	Physics I
XXXX	XXXX	“S” elective

Spring Semester

FPST	2343	Industrial Hygiene
FPST	2243	Sprinkler Sys Design
MATH	3263	Linear Alg &Diff Eq
ENSC	2113	Statics
XXXX	XXXX	“H” Eelective

JUNIOR YEAR

Fall Semester

FPST	3143	Life Safety Analysis
FPST	3213	Human Factors
PHYS	1214	Physics II
MET	3433	Thermodynamics
ENGL	3323	Technical Writing

Spring Semester

GENT	3323	Strength of Materials
FPST	3373	Fire Dynamics
IEM	3513	Eng Economic Analysis
MGMT	3013	Management
FPST	3013	Safety Management
XXXX	XXXX	“S” Elective

SENIOR YEAR

Fall Semester

FPST	4143	Ind Vent & Smoke Control
CHEM	3013	Organic Chemistry
FPST	4403	HazMat Incident Mgmt
FPST	4982	Fire Protection & Safety Projects I
XXXX	XXXX	Specialty Elective
XXXX	XXXX	Specialty Elective

Spring Semester

FPST	4683	Ind Loss Prevention
FPST	4333	Sys & Process Safety
FPST	4992	Fire Protection & Safety Projects II
XXXX	XXXX	Controlled Elective
XXXX	XXXX	Controlled Elective

TOTAL HOURS: 125

This course plan for general guidance only. An official course plan will be provided upon enrollment.

Contact | ceat.recruitment@okstate.edu | (405)-744-5279