



COLLEGE OF  
ENGINEERING, ARCHITECTURE  
AND TECHNOLOGY

# FPSET

## FIRE PROTECTION & SAFETY ENGINEERING TECHNOLOGY



### WHAT IS FPSET?

The Fire Protection and Safety Engineering Technology (FPSET) curriculum provides preparation for assessing and reducing the risk and loss potential with respect to fire, safety, industrial hygiene, and hazardous material incidents.

### WHY FPSET AT OSU?

The FPSET program, offered in a traditional setting or online, began at Oklahoma State University in 1937. The demand for loss control specialists has resulted in the evolution of the program into one that places emphasis on fire protection, safety, and occupational/environmental health. The program prepares graduates for careers in risk control engineering, which is segmented into three major areas: loss from fire, physical accidents, and occupational health.

### HIGHLIGHTS

- Home to the nation's first ABET accredited FPSET program, OSU is still one of only a few accredited baccalaureate degree programs of its type in the United States.
- Chairman of the President's Committee of the Arts and Humanities recognized OSU FPSET program as a "national treasure whose work is of great national importance" with graduates who safeguard art, history and the public.
- FPSET graduates are widely sought after by varied industries looking to reduce fire and safety losses. Students have a variety of career choices and flexibility due to the diversity of training the program provides.
- President of the National Fire Protection Association declared in 2010 that OSU Fire Protection and Safety Engineering Technology is the "Standard of Quality in the Profession."
- Online option available

### CAREER INDUSTRIES & FOCUS AREAS

#### CAREER OPPORTUNITIES

- 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



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# Typical Four-Year Curriculum

**\*Online option available****FIRST YEAR****Fall Semester**

CHEM	1414	General Chemistry for Engineers
FPST	1213	Fire Safety Haz Recon
MATH	2144	Calculus I
HIST	1103	American History
ENGL	1113	Fresh Comp I

**Spring Semester**

POLS	1113	American Government
FPST	1373	Fire Supp & Det Sys
CET	2253	Printreading & BIM
MATH	2133	Tech Calc II
XXXX	XXXX	"A" or "N" elective

**SECOND YEAR****Fall Semester**

FPST	2483	Fluid Mechanics for Fire Protection
FPST	3383	Building Electrical Systems
STAT	2013	Statistics
PHYS	2014	University Physics I
XXXX	XXXX	"H" elective

**Spring Semester**

FPST	2343	Industrial Hygiene
FPST	2243	Sprinkler Sys Design
FPST	2023	Occup Safety Techn
ENSC	2113	Statics
XXXX	XXXX	Specialty Elective

**THIRD YEAR****Fall Semester**

FPST	3213	Human Factors
MET	3453	Heat Transfer
ENGL	3323	Technical Writing
FPST	3143	Life Safety Analysis
ENSC	3431	Thermal Science Lab
XXXX	XXXX	Specialty Elective

**Spring Semester**

ENSC	2143	Strength of Materials
FPST	3013	Safety Management
FPST	3373	Fire Dynamics
IEM	3503	Eng Economic Analysis
XXXX	XXXX	Controlled Elective

**FOURTH YEAR****Fall Semester**

FPST	4143	Ind Vent & Smoke Control
FPST	4333	Sys & Process Safety
FPST	4982	Fire Protection & Safety Projects I
MATH	3013	Linear Algebra
XXXX	XXXX	Controlled Elective
XXXX	XXXX	"H" Elective

**Spring Semester**

FPST	4683	Risk Control Engineering
FPST	4403	HazMat Incident Mgmt
FPST	4992	Fire Protection & Safety Projects II
XXXX	XXXX	"S" Elective
XXXX	XXXX	Controlled Elective

**TOTAL HOURS: 125**

Accredited by the Engineering  
Technology Accreditation  
Commission of ABET,  
<http://www.abet.org>.



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

**Contact** | [ceat.recruitment@okstate.edu](mailto:ceat.recruitment@okstate.edu) | (405)-744-5279