

FIRE PROTECTION AND SAFETY ENGINEERING TECHNOLOGY, BSET

Requirements for Students Matriculating in or before Academic Year 2018-2019. Learn more about University Academic Regulation 3.1 (<http://catalog.okstate.edu/university-academic-regulations/#matriculation>).

Minimum Overall Grade Point Average: 2.00
Total Hours: 125

Code	Title	Hours
General Education Requirements		
All General Education coursework requirements are satisfied upon completion of this degree plan.		
<i>English Composition</i>		
See Academic Regulation 3.5 (http://catalog.okstate.edu/university-academic-regulations/#english-composition)		
Select one of the following:		3
ENGL 1113	Composition I	
ENGL 1123	International Freshman Composition I	
ENGL 1313	Critical Analysis and Writing I	
ENGL 3323	Technical Writing	3
<i>American History & Government</i>		
Select one of the following:		3
HIST 1103	Survey of American History	
HIST 1483	American History to 1865	
HIST 1493	American History Since 1865	
POLS 1113	American Government	3
<i>Analytical & Quantitative Thought (A)</i>		
MATH 2123	Calculus for Technology Programs I (A)	3
or MATH 2144	Calculus I (A)	
MATH 2133	Calculus for Technology Programs II (A)	3
or MATH 2153	Calculus II (A)	
Select one of the following:		3
MATH 3263	Linear Algebra and Differential Equations	
MATH 3013	Linear Algebra	
MATH 2233	Differential Equations	
STAT 3013	Intermediate Statistical Analysis	
STAT 4033	Engineering Statistics	
<i>Humanities (H)</i>		
Courses designated (H)		6
<i>Natural Sciences (N)</i>		
Must include one Laboratory Science (L) course		
Select one of the following:		4
CHEM 1414	General Chemistry for Engineers (LN)	
CHEM 1314 & CHEM 1515	Chemistry I (LN) and Chemistry II (LN)	
CHEM 1215 & CHEM 1225	Chemical Principles I (LN) and Chemical Principles II (LN)	
PHYS 1114	College Physics I (LN)	4

or PHYS 2014 University Physics I (LN)		
<i>Social & Behavioral Sciences (S)</i>		
Course designated (S)		6
<i>Additional General Education</i>		
Courses designated (A) or (N)		3
Hours Subtotal		44
Diversity (D) & International Dimension (I)		
May be completed in any part of the degree plan		
Select at least one Diversity (D) course		
Select at least one International Dimension (I) course		
College/Departmental Requirements		
<i>Engineering</i>		
Select one of the following:		2
ENGR 1322	Engineering Design with CAD	
ENGR 1332	Engineering Design with CAD for MAE	
ENGR 1342	Engineering Design with CAD for ECEN	
ENGR 1352	Engineering Design with CAD for CHE	
MET 1123	Technical Drawing and Basic CAD	
CMT 2203	Construction Drawings (for non-majors)	
<i>Engineering Science</i>		
ENSC 2113	Statics	3
or GENT 2323	Statics	
Select one of the following:		3
ENSC 2213	Thermodynamics	
MET 3433	Basic Thermodynamics	
MET 4433	Heat Transfer	
Select one of the following:		3
ENSC 2613	Introduction to Electrical Science	
PHYS 1214	College Physics II (LN)	
PHYS 2114	University Physics II (LN)	
<i>Specialty</i>		
FPST 1213	Fire Safety Hazards Recognition	3
FPST 1373	Fire Suppression and Detection Systems	3
FPST 2023	Industrial and Occupational Safety	3
FPST 2243	Design and Analysis of Sprinkler Systems	3
FPST 2343	Elements of Industrial Hygiene	3
OR FPST 2344		
FPST 2483	Fluid Mechanics for Fire Protection	3
Hours Subtotal		29
Major Requirements		
Select one of the following:		3
CHEM 3013	Survey of Organic Chemistry	
CHEM 3015	Survey of Organic Chemistry	
GENT 3323	Strength of Materials	
ENSC 2143	Strength of Materials	
ENSC 3313	Materials Science	
Select one of the following:		3
STAT 2013	Elementary Statistics (A)	
STAT 4013	Statistical Methods I (A)	
STAT 4033	Engineering Statistics	
MGMT 3013	Fundamentals of Management (S)	3
or IEM 4413	Industrial Organization Management	

IEM 3503	Engineering Economic Analysis	3	BIOC	
or IEM 3513	Economic Decision Analysis		BIOL	
FPST 3013	Safety Management	3	CHEM	
FPST 3143	Life Safety Analysis	3	CMT	
FPST 3213	Human Factors in Accident Prevention	3	CS	
FPST 3373	Fire Dynamics	3	EEE 3023	Introduction to Entrepreneurial Thinking and Behavior
FPST 4143	Industrial Ventilation and Smoke Control	3	EEE 4483	Entrepreneurship and New Technologies
FPST 4333	System and Process Safety Analysis	3	EET	
FPST 4403	Hazardous Materials Incident Management	3	ENGR	
FPST 4683	Industrial Loss Prevention	3	ENSC	
FPST 4982 & FPST 4992	Fire Protection & Safety Projects I and Fire Protection & Safety Projects II	4	FPST	
or FPST 4993	Advanced Fire and Safety Problems		FSEP	
Select 6 hours of specialty electives of the following:		6	GEOL 3413	Petroleum Geology for Engineers
AVED 4113	Aviation Safety		GEOL 4323	Applied Well Log Analysis for Engineers
CIVE 3813	Environmental Engineering Science		HESA 3013	Leadership Concepts (S)
CMT 4443	Construction Safety and Loss Control		IEM	
ECON 3903	Economics of the Environment		LSB	
EET 1003	Introduction to Microcomputer Programming		MATH (except MATH 3403 or MATH 3603)	
ENGR 1412	Introductory Engineering Computer Programming		MET	
ENGR 4123	Tort and Products Liability Law for Technical Professionals (S)		MGMT (except MGMT 3943)	
HLTH 2323	Drugs and Society		MSIS 4123	Information Assurance Management
HLTH 2603	Total Wellness (S)		MSIS 4233	Applied Information Systems Security
MET 3313	Applied Fluid Mechanics		NREM 3713	Wildland Fire Ecology and Management
PETE 4303	Petroleum Rock and Fluids		PETE	
PETE 4313	Drilling and Well Completions		PHYS	
PETE 4333	Production Engineering		POLS 3733	Emergency Management: Preparedness and Response
PETE 4343	Reservoir Engineering and Well Testing		POLS 3813	Introduction to Emergency Management
NREM 3713	Wildland Fire Ecology and Management		POLS 3893	Terrorism & Counterterrorism
POLS 3733	Emergency Management: Preparedness and Response		POLS 4363	Environmental Law And Policy
POLS 3813	Introduction to Emergency Management		POLS 4403	Urban Politics and Management
POLS 3893	Terrorism & Counterterrorism		STAT	
POLS 4363	Environmental Law And Policy		SPCH 3733	Elements of Persuasion (S)
POLS 4403	Urban Politics and Management		Hours Subtotal	6
FPST and FSEP courses not used elsewhere.			Total Hours	125
ENSC courses not used elsewhere				
Hours Subtotal		46		
Electives				
Select 6 hours of upper-division controlled electives of the following:		6		
AVED 4113	Aviation Safety			
AVED 4413	Aviation Terrorism and Asymmetrical Warfare			
AVED 4423	Aviation Security Organizations and Law			
AVED 4433	Airport Safety Inspections			
AVED 4943	Basic Aircraft Accident Investigation			
AVED 4983	Aerospace Industry Hazardous Materials or Dangerous Goods			
BCOM				

¹ The combined credits for FPST 2343 or FPST 2344 and that of FPST 4982 and FPST 4992 or FPST 4993 needs to equal 7 credits. If FPST 2344, FPST 4982 and FPST 4983 are taken together, one hour can be applied towards the specialty or controlled electives.

Graduation Requirements

1. A grade of 'C' or better is required in each course that is a prerequisite to a required course that has an engineering or engineering technology prefix.
2. A minimum overall GPA of 2.5 is required in all courses that are used in this degree plan with engineering or engineering technology prefixes.

Additional State/OSU Requirements

- At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or 50% of the upper-division hours in the major field completed at OSU.

- Limit of: one-half of major course requirements as transfer work; one-fourth of hours earned by correspondence; 8 transfer correspondence hours.
- Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.
- Degrees that follow this plan must be completed by the end of Summer 2024.