ENGINEERING TECHNOLOGY: FIRE SAFETY AND EXPLOSION PROTECTION, MS

Requirements for Students Matriculating in or before Academic Year 2024-2025. Learn more about Graduate College Academic Regulation 7.0 (http://catalog.okstate.edu/graduate-college/#70).

Thesis Option

Total Hours: 30

Code	Title	Hours
Engineering Technology Core Courses		
FEMP 5013	Research Design & Methodology	3
or FSEP 5013	Research Design & Methodology	
IEM 5603	Project Management	3
or FSEP 5023	Project Management	
FSEP 5133	Principles of Industrial and Process Safety	3
Fire Safety and Explosion Protection Core Courses		
Select 9 hours from FSEP core courses.		9
Hours Subtotal		**18**
Electives		
Select 3 hours of graduate courses approved by the advisory committee.		3
Select 3 hours from FSEP courses.		3
Hours Subtotal		**6**
Master's Thesis		
FSEP 5000	Master's Thesis	6
Each M.S. candidate must prepare a written thesis and defend it before a thesis committee of at least three faculty members (minimum two from the FPST program). The written document must satisfy the requirements of the Graduate College for format and structure. The thesis defense consists of a twenty-minute oral presentation, followed by questions from the committee.		
Hours Subtotal		**6**
Total Hours		**30**

Code	Title	Hours
FSEP Core Courses		
FSEP 5033	Risk Analysis	3
FSEP 5113	Fire and Explosion Hazard Recognition	3
FSEP 5143	Performance Based Design for Life Safety in Fire and Other Hazards	3
FSEP 5043	Principles and Impacts of Explosions	3
FSEP Electives		
FSEP 5060	Emerging Topics in Engineering Technology	3
FSEP 5123	Advanced Special Hazard Suppression and Detection	3
FSEP 5153	Advanced Exposure Assessment	3
FSEP 5163	Building Electrical Systems	3
FSEP 5213	Advanced Building Design and Analysis	3
FSEP 5383	Fire and Evacuation Modeling	3

Non-Thesis Option

Total Hours: 33

Code	Title	Hours
Engineering Technology Core Courses		
FEMP 5013	Research Design & Methodology	3
or FSEP 5013	Research Design & Methodology	
IEM 5603	Project Management	3
or FSEP 5023	Project Management	
FSEP 5133	Principles of Industrial and Process Safety	3
Fire Safety and Explosion Protection Core Courses		
Select 9 hours from FSEP core courses.		9
Hours Subtotal		**18**
Electives		
Select one of the two options:		15
Coursework only option		
Select 6 hours of graduate courses approved by the advisory committee.		
Select 9 hours from FSEP courses.		
Creative component option		
Select 6 hours of graduate courses approved by the advisory committee.		
Select 6 hours from FSEP courses		
FSEP 5990	Directed Studies (3 hours)	
The FSEP 5990 course is used for a creative component. A report (a "mini-thesis") must be submitted, prepared in the style of an MS thesis, but not submitted for Graduate College approval.		
Hours Subtotal		**15**
Total Hours		**33**

Code	Title	Hours
FSEP Core Courses		
FSEP 5033	Risk Analysis	3
FSEP 5113	Fire and Explosion Hazard Recognition	3
FSEP 5143	Performance Based Design for Life Safety in Fire and Other Hazards	3
FSEP 5043	Principles and Impacts of Explosions	3
FSEP Electives		
FSEP 5060	Emerging Topics in Engineering Technology	3
FSEP 5123	Advanced Special Hazard Suppression and Detection	3
FSEP 5153	Advanced Exposure Assessment	3
FSEP 5163	Building Electrical Systems	3
FSEP 5213	Advanced Building Design and Analysis	3
FSEP 5383	Fire and Evacuation Modeling	3

Graduate College Master's Program Requirements

Learn more about Graduate College 2024-2025 Master's Degree Program Requirements (http://catalog.okstate.edu/graduate-college/). Check the General Graduate College academic regulations for minimal GPA, language proficiency and other general requirements.