SAFETY, M.S.

Program Description

No human endeavor or undertaking can be done without involving the field of safety technology. Safety professionals work in a variety of situations alongside management to ensure the health and safety of all employees. The graduate curriculum in Safety offers two areas of emphasis: Mine Safety and Occupational Safety and Health. The Master of Science degree has a 36 semester credit-hour requirement (18 CR of the 36 CR should be with courses at the 600 level).

Admission Requirements

Applicants should follow the admissions process described in this catalog or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission (http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/).

In addition:

Each applicant for admission must have an undergraduate degree from an accredited college or university, and must satisfy at least **one** of the following criteria:

- Score at the mean or above on the verbal GRE
- Score at the mean or above on the quantitative GRE
- Score at the mean or above on the analytical GRE
- Score at the mean or above on the Miller Analogies Test
- Have an undergraduate GPA of 2.50 or above
- Have passed the Fundamentals of Engineering exam and/or the Professional Engineering exam

In addition to the general requirements all students entering the graduate Safety program must have completed prior to admission the following courses **or** their equivalent:

• For the Area of Emphasis in Occupational Safety and Health:

Code	Title	Credit Hours
MTH 130 💎	College Algebra	3
PHY 101 💎	Conceptual Physics	3
PHY 101L 💎	Conceptual Physics Lab	1
CHM 205	General, Organic, and Biochem	3

Plan of Study

Occupational Safety and Health

Area of Emphasis in M.S. in Safety

Area of Emphasis in W.S. In Safety				
Code	Title	Credit Hours		
Core Course	25			
SFT 599	Dev & Mgt of Occup Safety Prog	3		
SFT 610	Intro to Prof Safety & Health	3		
SFT 630	Current Lit & Res in Safety	3		
Required Co	ourses			
SFT 540	Indust Fire Protection	3		
SFT 554	Indust Hygiene I	3		
SFT 597	Occup Sft & Health Prog Dev	3		

Total Credit Hours		
Quan Indus Hygiene Lab	3	
Appl Ergon and Hum Factors Eng	3	
Saf Engineering Equip Design	3	
	Saf Engineering Equip Design Appl Ergon and Hum Factors Eng Quan Indus Hygiene Lab urs	

Students may choose to complete either the project option or thesis option after consultation with their academic advisor.

Thesis Option

The thesis option involves completion of 3 CR from any 600-level, safety-related elective courses, and 6 CR of research (SFT 681 Thesis) under the direction of an advisor. The student must prepare a formal thesis proposal (including a statement of work, extensive literature search, and proposed timeline) in consultation with his or her advisor and present the proposal to the graduate thesis committee, which is formed in consultation with the advisor. The thesis proposal must be defended and approved by the thesis committee prior to the final semester of study (typically completed during the first semester of SFT 681 Thesis). Students must then summarize their research work in the form of a formal, written thesis and successfully defend it before their thesis committee in order to fulfill the requirements for the degree (typically completed during the second semester of SFT 681 Thesis). Thesis work is typically conducted over two semesters.

Project Option

The project option involves completion of 6 CR from any 600-level, safety-related elective courses and complete 3 CR of comprehensive project (SFT 679 Problem Report). The comprehensive project involves the application coursework completed as part of the degree to a practical problem. Students will work their advisors to identify an appropriate project and scope. Students must prepare a formal written report and deliver an oral presentation to a committee. Students register for SFT 679 Problem Report (3 CR) during the semester in which their project completed and presented, but preliminary work on the project may commence before that semester.

 Mine Safety Emphasis (http://catalog.marshall.edu/graduate/ programs-az/engineering-computer-sciences/safety-ms/minesafety-emphasis/)