SAFETY, M.S.

Areas of Emphasis

Mine Safety

Occupational Safety and Health

Minor in Safety

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. A thesis may be submitted which would require 32 credit hours of graduate coursework with no more than 6 credit-hours to be earned by the thesis. A final (written) comprehensive examination is administered to all candidates, thesis and non-thesis, by a committee of three members of the graduate faculty in the College of Information Technology and Engineering (CITE), including the student's advisor. Comprehensive examinations will be administered during the spring and fall semesters.

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.

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: MTH 130, PHY 101 and 101L, and CHM 203

Degree Requirements

Area of Emphasis in Occupational Safety and Health

Core Courses

SFT 599 Occupational Safety Program Management
SFT 610 Philosophical and Psychological Concept
SFT 630 Current Literature and Research in Occupational Safety

Required Courses

SFT 540 Industrial Fire Protection
SFT 554 Industrial Hygiene I
SFT 597 Occupational Safety Program Development
SFT 645 Safety Engineering & Equipment Design
SFT 660 Human Factors in Accident Prevention (OR)
SFT 560 Fundamentals of Ergonomics
ES 550 Environmental Law I

Electives

9 hours chosen with advisor to give the student 18 hours of 600-level courses

Total hours including core, required, and elective courses 36

Area of Emphasis in Mine Safety

The Mine Safety graduate program is offered in cooperation with the National Mine Safety and Health Academy (MSHA), Beckley, WV. The program is designed for underground and surface mining and is applicable to all aspects of the metallic and non-metallic mining industry. Typically students are MSHA employees and have five or more years of experience in the mining industry; a technical background is required. A limited number of non-MSHA employees are permitted into the program; preference will be given to those with mining experience. The Division Chair of Applied Science Technology grants permission for admission to this area of emphasis. Only students admitted to Mine Safety will

be eligible to take courses. Please contact the Division Chair for further information prior to applying for admission to this program.

Minor in Safety

Graduate students from other majors may obtain a graduate Minor in Safety by completing any three Safety Technology courses at the 500-level or 600-level for a total of nine hours of graduate work, with written permission in advance from the student's academic advisor and the Department Chair prior to the student taking the courses.