



**SAFETY  
DEGREE PROGRAM (M.S.)**

The Master of Science (M.S.) Degree program in Occupational and Environmental Safety and Health provides advanced academic work in occupational safety. Graduate academic work is also provided in traffic safety.

The curriculum is designed to develop an advanced understanding of general and specific issues relevant to occupational and environmental safety. Students will develop skills in collecting, analyzing, drawing conclusions from data and preparing oral and written reports relevant to accident investigations, job safety, health analysis, workers' compensation analysis, fire protection investigation analysis, workplace ergonomics assessment and hazard investigation.

**Program Coordinator:**

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**Department Secretary:**

Winther 6034  
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**Additional Admission Requirements:**

Three letters of recommendation supporting the candidate's ability to do graduate level work, a successful interview with the Department Admissions Committee, and meeting the prerequisites listed below.

**Degree Requirements:**

Thirty-six credits of course work which includes a practicum internship, successful completion of an oral defense of the thesis or designated research paper, and the

successful completion of an oral or written proficiency exam. At least half of the course work must be completed with courses numbered 700 or higher.

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### **PREREQUISITES (OR EQUIVALENTS)**

1. SFTYIND-380 INDUSTRIAL ACCIDENT PREVENTION
2. CHEM-104 CHEMISTRY
3. MATH-231 STATISTICS

### **REQUIRED COURSES - 21-27 CREDITS**

1. SFTYGEN-788 ADVANCED HUMAN FACTORS ENGINEERING
2. SFTYGEN-787 SYSTEM SAFETY ANALYSIS
3. SFTYIND-783 CORPORATE SAFETY MANAGEMENT
4. SFTYGEN-752 SAFETY COMMUNICATIONS
5. SFTYIND-753 LEGAL ASPECTS IN OCCUPATIONAL SAFETY
6. SFTYIND-685 FIRE PROTECTION/ PREVENTION
7. SFTYIND-684 INDUSTRIAL HYGIENE
8. SFTYPRAC-793 PRACTICUM (MAY BE WAIVED FOR THOSE WITH APPROPRIATE WORK EXPERIENCE.)

### **RESEARCH REQUIREMENTS - 6-9 CREDITS**

1. EDFOUND-740 TECHNIQUES OF RESEARCH
2. SFTYGEN-799 THESIS RESEARCH OR
3. SFTYGEN-789 READINGS AND RESEARCH IN SAFETY

### **SUGGESTED EXPANSION COURSES - 0-6 CREDITS**

1. SFTYGEN-581 MOTOR FLEET SAFETY
2. SFTYGEN-650 BEHAVIORAL ASPECTS OF ACCIDENT PREVENTION
3. SFTYIND-657 PRINCIPLES OF OCCUPATIONAL EPIDEMIOLOGY
4. SFTYIND-680 INDUSTRIAL HYGIENE INSTRUMENTATION
5. SFTYIND-687 PRODUCT SAFETY
6. SFTYIND-689 CHEMICAL SAFETY
7. SFTYIND-711 PRINCIPLES OF INSTITUTIONAL SAFETY
8. MANGEMNT-705 INFORMATION SYSTEMS FOUNDATIONS
9. SFTYIND-620 PRINCIPLES OF ENVIRONMENTAL SAFETY
10. OTHER COURSE(S) CHOSEN IN CONSULTATION WITH ADVISER