



Duluth Campus

Environmental Health and Safety M.Env.Hlth.Sa.

UMD Mechanical/Industrial Engineering

Swenson College of Science and Engineering

Link to a [list of faculty](#) for this program.

Contact Information:

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Email: mehs@d.umn.edu

Website: <http://www.d.umn.edu/mehs>

- Program Type: Master's
- Requirements for this program are current for Fall 2017
- Length of program in credits: 30
- This program requires summer semesters for timely completion.
- Degree: Master of Environmental Health and Safety

Along with the program-specific requirements listed below, please read the [General Information](#) section of the catalog website for requirements that apply to all major fields.

The Master of Environmental Health and Safety (M.E.H.S.) program prepares its graduates for professional careers in environmental health and safety--encompassing occupational safety, industrial hygiene, ergonomics, risk management, and environmental health. The program strives not only to provide academic-based knowledge, but also the technical and practical skills necessary to be a successful E.H.S. professional. While coursework covers a broad range of E.H.S. topics, students may also choose areas in which they would like to explore more in-depth.

Ultimately, the mission of the M.E.H.S. program is to produce highly-regarded and sought-after graduates who have the requisite skills and knowledge to practice environmental health and safety effectively in a diverse range of occupations and will do so in a competent, professional, and ethical manner.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Prerequisites for Admission

The preferred undergraduate GPA for admittance to the program is 3.00.

Applicants preferably will have a baccalaureate degree in a science, engineering, or other E.H.S.-related field. All degrees, must have been earned at an accredited college or university.

Other requirements to be completed before admission:

Applicants must have earned a grade of C or better at the collegiate level in the following introductory coursework: chemistry with a lab component, and statistics.

Applicants must provide three letters of recommendation, one of which should be from an instructor or professor in the department awarding the student's baccalaureate degree. Recommendations should address either the student's academic ability or readiness to pursue a professional graduate degree in E.H.S., if not both. Recommendations from family members will not be accepted.

Preferred applicants will have work experience related to E.H.S. and have completed collegiate-level coursework in introductory physics, human biology and/or physiology, and psychology.

Special Application Requirements:

Applicants must also provide:

- Answers to essay questions (see website at <http://www.d.umn.edu/mehs/program/admissions.html>)
- Official transcript(s) indicating completion of a baccalaureate degree program and grades obtained in the prerequisite courses
- Resume or CV

International applicants must submit score(s) from one of the following tests:

- TOEFL
 - Internet Based - Total Score: 79
 - Internet Based - Writing Score: 21
 - Internet Based - Reading Score: 19
 - Paper Based - Total Score: 550
- IELTS
 - Total Score: 6.5
- MELAB
 - Final score: 80

Key to [test abbreviations](#)(TOEFL, IELTS, MELAB).

For an online application or for more information about graduate education admissions, see the [General Information](#) section of the catalog website.

Program Requirements

Plan B: Plan B requires 30 major credits and 0 credits outside the major. The final exam is written and oral. A capstone project is required.

Capstone Project: The Plan B capstone project requires a student to apply knowledge and skills acquired from the M.E.H.S. coursework and demonstrate their mastery of E.H.S.-related material and concepts in identifying and addressing a particular concern. The project is part of a minimum six-week cooperative internship conducted in an industrial, governmental, or other organization having an established safety program or in the process of implementing a safety program. A report on the project must be prepared following the guidelines for an article to be submitted to a relevant journal in E.H.S. (e.g., Professional Safety) and an oral presentation is required.

This program may be completed with a minor.

Use of 4xxx courses towards program requirements is not permitted.

A minimum GPA of 3.00 is required for students to remain in good standing.

At least two semesters in residence are required.

Core Requirements (18 cr)

- [SAFE 6002](#) - Regulatory Standards and Hazard Control (3.0 cr)
- [SAFE 6011](#) - System Safety and Loss Control Techniques (3.0 cr)
- [SAFE 6012](#) - Risk Management and Workers' Compensation (3.0 cr)
- [SAFE 6101](#) - Principles of Industrial Hygiene (3.0 cr)
- [SAFE 6302](#) - Occupational Ergonomics and Injury Management (3.0 cr)

Electives (9 cr)

Take 9 or more credit(s) from the following:

- [EMGT 5110](#) - Management of Engineers and Technology (3.0 cr)
- [EMGT 5120](#) *{Inactive}* (3.0 cr)
- [EMGT 5995](#) *{Inactive}* (1.0 - 3.0 cr)
- [IE 5315](#) *{Inactive}* (3.0 cr)
- [IE 5325](#) - Advanced Engineering Economics (3.0 cr)
- [SAFE 6051](#) - Construction Safety (3.0 cr)
- [SAFE 6102](#) - Advanced Industrial Hygiene and Health Physics (3.0 cr)
- [SAFE 6201](#) - Fire Prevention and Emergency Preparedness (3.0 cr)
- [SAFE 6211](#) - Transportation Safety (3.0 cr)
- [SAFE 6212](#) *{Inactive}* (3.0 cr)
- [SAFE 6213](#) *{Inactive}* (3.0 cr)
- [SAFE 6291](#) - Independent Study in Industrial Safety (1.0 - 3.0 cr)
- [SAFE 6295](#) - Special Topics: (Various Titles to be Assigned) (1.0 - 3.0 cr)
- [SAFE 6301](#) *{Inactive}* (3.0 cr)
- [SAFE 6401](#) - Environmental Safety and Legal Implications (3.0 cr)
- [SAFE 6821](#) - Organization and Administration of Safety Programs (3.0 cr)

Internship (3 cr)

Register for the 3-credit cooperative internship only upon submission of an approved Plan B Master's Report Form to the M.E.H.S. program office, but within 12 months of completing the program's required 27 course credits.



[SAFE 6997](#) - Internship in Environmental Health and Safety (3.0 cr)