



Twin Cities Campus

Infrastructure Systems Management and Engineering M.S.I.S.M.E

Technological Leadership Institute

College of Science and Engineering

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

Contact Information:

Technological Leadership Institute, University of Minnesota, 290 McNamara Alumni Center, 200 Oak Street SE, Minneapolis MN 55455 (612-624-5474; fax: 612-624-7510)

Email: jsme@umn.edu

Website: <http://tli.umn.edu>

- Program Type: Master's
- Requirements for this program are current for Fall 2018
- Length of program in credits: 30
- This program does not require summer semesters for timely completion.
- Degree: Master of Science in Infrastructure Sys Mgmt & Eng

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.

Students are no longer being accepted into this program. Program requirements below are for current students only.

The master of science in infrastructure systems management and engineering (MSISME) focuses on developing management and engineering tools that address issues in local, county, and state infrastructure. It is an interdisciplinary program offered through the College of Science and Engineering's Technological Leadership Institute. The two-year, professional-format program focuses on key knowledge areas of engineering, technology, and science; management of personnel, projects, and programs; communications; governance; and synthesis. Fields of application include transportation engineering/pavement management; water resources/environmental engineering; municipal engineering; construction and maintenance; computer applications/asset management; parks, recreation and open space. The degree is offered in a hybrid online format, with in-person residencies scheduled over the course of the program.

Program Delivery

This program is available:

- primarily online (at least 80% of the instruction for the program is online with short, intensive periods of face-to-face coursework)

Prerequisites for Admission

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

Other requirements to be completed before admission:

Students are no longer being accepted into this program.

A BS degree in engineering, plus a minimum of one year of professional work experience in an infrastructure area, or a BS degree in a related science or technology field and a minimum of two years professional work experience in an infrastructure area are required.

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 up to null credits outside the major. The final exam is oral. A capstone project is required.

Capstone Project: The capstone integrates knowledge from courses in the master's program with job experience. Students will prepare a proposal, conduct the project and report the results in written and oral form. The project will involve some aspect of the design, management, and operation of some feature of infrastructure. Students must register for the capstone course ISME 8105 (3 cr).

This program may not be completed with a minor.

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

A minimum GPA of 3.25 is required for students to remain in good standing.

Required Courses

ISME 5101 *{Inactive}* (3.0 cr)
ISME 5112 *{Inactive}* (2.0 cr)
ISME 5201 *{Inactive}* (2.0 cr)
ISME 5202 *{Inactive}* (2.0 cr)
ISME 5301 *{Inactive}* (2.0 cr)
ISME 5302 *{Inactive}* (2.0 cr)
ISME 5402 *{Inactive}* (2.0 cr)
ISME 5500 *{Inactive}* (1.0 cr)
ISME 5503 *{Inactive}* (2.0 cr)
ISME 5504 *{Inactive}* (2.0 cr)

Capstone

Take a total of 3 credits.

ISME 8105 *{Inactive}* (1.0 - 2.0 cr)

Electives

Choose at least 7 elective credits in consultation with the director of graduate studies.