



### *Twin Cities Campus*

## Management of Technology Minor

*Technological Leadership Institute*

### College of Science and Engineering

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

#### **Contact Information:**

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

- Program Type: Graduate minor related to major
- Requirements for this program are current for Fall 2021
- Length of program in credits (Masters): 6
- Length of program in credits (Doctorate): 12
- This program does not require summer semesters for timely completion.

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 Management of Technology minor integrates the fields of technology and management, allowing students in science and engineering majors to develop understanding and expertise in business principles. The curriculum includes basic business knowledge, with an emphasis on technology-intensive organizations. Topics include strategy, finance, marketing, intellectual property, innovation, and technology planning. Each class will include exercises that inform students on those business topics, and give them an opportunity to practice the fundamental skills of communications, teamwork, and project management.

### Program Delivery

This program is available:

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

### Prerequisites for Admission

#### **Special Application Requirements:**

Students interested in the minor are strongly encouraged to confer with their major field advisor and director of graduate studies, and the Management of Technology (MOT) director of graduate studies regarding feasibility and requirements. Approval of the MOT director of graduate studies to pursue the minor is required.

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

### Program Requirements

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

MOT minor courses cannot be applied to Master of Science in Management of Technology degree requirements.

Courses offered on both the A-F and S/N grading basis must be taken A-F, with a minimum grade of B- earned for each course.

The minimum cumulative GPA for the minor is 3.00.

#### **Core Courses (4 credits)**

Take the following courses:

[MOT 5001](#) - Technological Business Fundamentals (2.0 cr)

[MOT 5002](#) - Creating Technological Innovation (3.0 cr)

#### **Electives (2 to 8 credits)**

Master's students select 2 credits, and doctoral students select 8 credits in consultation with the MOT director of graduate studies to



complete credit requirements. Other courses may be counted toward the MOT minor with prior approval by the MOT director of graduate studies.

[ENTR 6025](#) - Introduction to Entrepreneurship (2.0 cr)  
[ENTR 6036](#) - Managing the Growing Business (2.0 cr)  
[HSCI 5401](#) - Ethics in Science and Technology (3.0 cr)  
[HSCI 5421](#) - Engineering Ethics (3.0 cr)  
[IDSC 6041](#) - Information Technology Management (2.0 cr)  
[IDSC 6423](#) - Enterprise Systems (2.0 cr)  
[IE 5111](#) - Systems Engineering I (2.0 cr)  
[IE 5441](#) - Financial Decision Making (4.0 cr)  
[IE 5541](#) - Project Management (4.0 cr)  
[MBA 6111](#) - Organizational Behavior (2.0 cr)  
[MBA 6301](#) - Strategic Management (3.0 cr)  
[ME 8221](#) - New Product Design and Business Development I (4.0 cr)  
[ME 8222](#) - New Product Design and Business Development II (4.0 cr)  
[MGMT 6004](#) - Negotiation Strategies (2.0 cr)  
[MGMT 6041](#) - Competing Globally (2.0 cr)  
[MGMT 6084](#) - Management of Teams (2.0 cr)  
[MGMT 6305](#) - The International Environment of Business (4.0 cr)  
[MOT 5003](#) - Technological Business Planning Workshop (1.0 cr)  
[OLPD 5607](#) - Organization Development (3.0 cr)  
[PA 5711](#) - Science, Technology & Environmental Policy (3.0 cr)  
[PA 5741](#) - Risk, Resilience and Decision Making (1.5 cr)

## Program Sub-plans

Students are required to complete one of the following sub-plans.  
Students may not complete the program with more than one sub-plan.

Masters

Doctoral