

Master of Science (M.S.)

The Master of Science in Technology Management program incorporates appropriate theories and practices used in real-world applications for addressing the needs of modern industries.

The program consists of a core section of 6 courses, two research based courses, and 3 option specific elective courses. Students can choose classes in the following areas:

- Facilities management
- Industrial education
- Industrial training and development
- Manufacturing systems

Technology management students will...

- Understand management and its direct role in industry.
- Participate in experiential learning opportunities within industries
- Engage in research-related activities to solve real-world application problems
- Learn production planning, applications of scientific techniques for quality control, and assurance and management of production processes.
- Enhance their leadership positions in industry and related enterprises.
- Serve as effective leaders, supervisors, and managers in technical enterprises.
- Become managers in a technology based environment.

Career Planning

The Technology Management Program is designed to:

- Develop advanced competencies needed by technical managers, supervisors, and related positions in world-class industries and related enterprises.
- Prepare students to serve as effective leaders, supervisors, and managers in technical enterprises.
- Broaden the career potential of individuals through the ability to implement systems, increase productivity, and improve product quality.
- Develop a broad perspective needed for those employed in, or aspiring to earn, positions of responsibility in industry.

Internship and Employment Opportunities of Recent Graduates

- Lean director
- Project QA/QC manager
- Safety supervisor
- Facility managers
- Technical managers
- Engineering managers
- Production supervisors

Experiential Learning Opportunities for Students

- Proctor & Gamble
- TG Missouri
- Tyco Health Care
- Missouri Department of Transportation
- Southeast Missouri State University
- Facilities Management
- Technology Resource Center
- Missouri Research Corporation

Admission Requirements

1. For consideration, applicants must hold a bachelor's degree from an accredited college or university in industrial/engineering technology, engineering, industrial/technical education, or related fields with course work or a significant background in engineering economics quality control and process management. An applicant with another degree with a portfolio that can verify a record of successful industrial experience as a technical manager can be admitted after completing the required prerequisite courses.
2. Consideration for regular admission is based on an undergraduate grade point average of at least 3.00 on a 4.0 scale. Students who do not meet the regular admission requirements may be conditionally admitted and allowed to complete only nine graduate semester hours. Upon completion of the nine hours at Southeast, the student must have a grade point average of 3.33 on a 4.0 scale to be considered for full admission to the program. For more information, visit semo.edu/Polytech/academics/ms.html.

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This is a guide based on the 2018-2019 Graduate Bulletin and is subject to change. The time it takes to earn a degree will vary based on factors such as dual enrollment, remediation, and summer enrollment. Students meet with an academic advisor each semester and use DegreeWorks to monitor their progress.

CURRICULUM CHECKLIST**Technology Management Core Courses**

- FM504 Facilities Management (3)
- IM600 Managing Technology Innovation (3)
- IM602 Advanced Quality Concepts (3)
- IM603 Technology Supervision in Diverse Workplace (3)
- IM605 Innovation for a Lean Enterprise (3)
- IM606 Knowledge Management (3)
- IM691 Methods of Research in Technology Management (3)

Choose one track:

Applied Project Track:

- IM693 Applied Research Project
- GR698 Master's Final Comprehensive Exam (0)

Thesis Track:

- IM694 Thesis (3)
- GR699 Master's Oral Examination (0)

Elective Courses - Depending on your degree path, select 9 hours from the following classes:

- FM544 Sustainable Construction and Materials & Tech
- FM554 Facilities Operation and Supervision
- FM564 Sustainable Facility Planning & Design
- FM565 Building Automation & Technology
- IE590 Assessment for Career & Technical Education
- IE592 Selection & Organization of Subject Matter
- IE595 Teaching Adults in Career & Technical Education
- IE596 Philosophy in Career & Technical Education
- IE597 Coordination of Cooperative Education
- IM506 Projects in Industrial & Engineering Technology
- IM520 Technical Training and Development
- IM521 Technical Change and human Resource Development
- IM522 Technical Leadership in Training and Development
- IM523 Training and Development of Technical Teams
- IM555 Sustainable and Green Manufacturing
- IM617 Manufacturing Resource Analysis

About Our Online Programs

At Southeast, if a program is designated as an online degree that means you can complete your degree from anywhere, without ever having to come to one of our campuses. As a student in an online class, your faculty will be the same faculty who teach in our campus classrooms. Advising for online programs and other support services are all completed online by staff who specialize in serving distance students. Not all core courses are offered online every semester. Students are encouraged to work with an advisor for scheduling of online courses.

Recommended sequence of required course work:

First semester: 3 core courses

Second semester: 3 core courses

Third semester: IM691 and 2 elective courses

Fourth semester:

- Degree path 1: Thesis and 1 elective
- Degree path 2: IM693 and 1 elective

NOTE: If elective courses chosen require prerequisites, it may be necessary to take these in the first year of classes.

Why should I study Technology Management at Southeast?

The Master of Science in Technology Management program at Southeast was designed with the help from industries we serve in the southeast Missouri regions, including St. Louis. It serves technical managers, production supervisors, engineers, technicians, and related professionals who wish to study full time or part time to prepare for or enhance their leadership positions in industry and related enterprises. Upon completing the program, graduates serve as effective leaders, supervisors, and managers in technical enterprises.

To learn more

Southeast Online
(573) 651-2766

southeastonline@semo.edu
<http://online.semo.edu/content/>

To explore

**the College of Science,
Technology and Agriculture
online, visit semo.edu/costa**

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