

Master of Science (MS)
(Face-to-Face & Online Delivery)

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.

Becoming Career Ready...

/Students learn to understand management and its direct role in industry.

/Students participate in experiential learning opportunities within industries.

/Students engage in research-related activities to solve real-world application problems.

/Students learn production planning, applications of scientific techniques for quality control, and assurance and management of production processes.

/Students enhance their leadership positions in industry and related enterprises.

/Students serve as effective leaders, supervisors, and managers in technical enterprises.

/Students 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.

Flexibility

/Course options that can be completed 100% online.

/Already at Southeast? Talk to an advisor about enrolling in the accelerated program to earn graduate and undergraduate credit at the same time

To explore the College of Science, Technology, Engineering and Mathematics, visit semo.edu/stem

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. Hold a bachelor's degree from an accredited college or university in engineering or technology or closely related field
2. For regular admission, have an undergraduate grade point average of 3.0 on a 4.0 scale and few repeated courses.
3. For probationary admission, have an undergraduate grade point average of 2.5 on a 4.0 scale and submit official GRE scores. While under probation, students enroll in nine credit hours of course work in their program area and must earn a 3.0 GPA or higher on these first 9 hours to achieve regular admission.

All application materials must be submitted to the Office of Admissions by the following semester deadlines:

Fall – August 1 (domestic students);
July 1 (international students)
Spring – November 1

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This is a guide based on the 2021-2022 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 Degree Works to monitor their progress.

CURRICULUM CHECKLIST

33-36 Hours Required
CORE REQUIREMENTS:

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

CHOOSE ONE TRACK:
Class Track:

- IM692 Modeling and Simulation (3)
- GR698 Master's Final Comp Exam (0)
- 12 hours from list below

Project Track:

- IM693 Applied Research Project (3)
- GR698 or GR699 Master's Final Comprehensive or Oral Examination (0)
- 9 hours from one option

Thesis Track:

- IM694 Thesis (3)
- GR698 or GR699 Master's Final Comprehensive or Oral Examination (0)
- 9 hours from one option

CHOOSE 9-12 HOURS (based on track chosen above)

Any course with a CM, ET, FM, IM, MN, TN prefix at the graduate level (500 or higher). A limited number of courses outside of these prefixes may be allowed with departmental approval. Possible elective courses include:

- CM510 Building Information Modeling (3)
- ET568 Industrial Controls (3)
- ET570 Energy Management (3)
- EV551 Hazardous Material Assessment (3)
- EV653 Occupational Health (3)
- EV654 Risk Assessment Applications (3)
- EV655 Industrial Hygiene (3)
- EV660 Introduction to Toxicology (3)
- EV661 Business Strategies for Corporate Environmental Management (3)
- IM506 Projects in Industrial & Engineering Technology (3)
- IM515 Advanced Technical Communication (3)
- IM516 Documenting & Presenting Technical Instructions and Proposals (3)
- IM517 Software in Technical Documents (3)
- IM518 Advanced Technical Document Design, Organization and Graphics (3)
- IM520 Technical Training & Development (3)
- IM521 Technical Change & Human Resource Development (3)
- IM522 Technical Leadership in Training & Development (3)
- IM523 Training & Development of Technical Teams (3)
- IM555 Sustainable & Green Manufacturing (3)
- IM585 Independent Study in Industrial Management (3)
- IM617 Manufacturing Resource Analysis (3)
- MN512 Advanced Manufacturing Systems (3)
- TN562 Networking I (3)
- TN563 LAN Switching (3)
- TN564 Telecommunications & Networking II (3)
- TN565 Network Management (3)
- TN566 IP Telephony (3)
- TN625 Wireless Communications & Mobile Data Networks (3)
- TN635 Network Security (3)

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
- Degree path 3: IM692 and 2 electives

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

1.
2.

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.