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 3-4 option specific elective courses. Students can choose among the following options:

- Cybersecurity
- Facilities management
- Industrial education
- Industrial training and development
- Manufacturing systems
- Telecommunications systems
- Workplace environment and health safety
- Technical communication
- Customized

**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, 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 and 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 3.25 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.

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

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CURRICULUM CHECKLIST

33 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:

Thesis Track:
- IM694 Thesis (3)
- GR699 Master's Oral Exam (0)
  - 9 hours from one option

Applied Project Track:
- IM693 Applied Research Project (3)
- GR698 Master's Final Comp Exam (0)
  - 9 hours from one option

Class Track:
- IM692 Modeling and Simulation (3)
- GR698 Master's Final Comp Exam (0)
  - 12 hours from one option

CHOOSE 9-12 HOURS FROM ONE OPTION (depending on which track is chosen):

CYBERSECURITY
- CY501 Introduction to Cybersecurity (3)
- CY510 Information Security and Assurance (3)
- CY520 Information Security in Systems Administration (3)
- CY610 Web Application Security (3)
- CY620 Computer Forensics (3)

FACILITIES MANAGEMENT
- CM510 Building Information Modeling (3)
- ET570 Energy Management (3)
- EV654 Risk Assessment Applications (3)
- FM554 Facilities Operation and Supervision (3)
- IM506 Projects in Industrial & Engineering Technology (3)

INDUSTRIAL EDUCATION/TRAINING & DEVELOPMENT
- IE590 Assessment for Career & Technical Education (3)
- IE592 Selection & Organization of Subject Matter (3)
- IE593 Principles & Practices of Industrial Technical Teaching (3)
- IE595 Teaching Adults in Career & Technical Education (3)
- IE596 Philosophy in Career & Technical Education (3)
- IE597 Coordination of Cooperative Education (3)
- IM520 Technical Training & Development (3)
- IM521 Technical Change & HR Development (3)
- IM522 Technical Leadership in Training & Development (3)
- IM523 Training & Development of Technical Teams (3)

MANUFACTURING SYSTEMS
- ET568 Industrial Controls (3)
- ET570 Energy Management (3)
- IM555 Sustainable and Green Manufacturing (3)
- IM617 Manufacturing Resource Analysis (3)
- MN512 Advanced Manufacturing Systems (3)

TELECOMMUNICATIONS SYSTEMS
- 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)