

# Engineering Management MS

---

## COLLEGE OF ENGINEERING

Learn more about the Master of Science in Engineering Management.

## About the Program

The interdisciplinary Master of Science in Engineering Management is hosted by the College of Engineering in collaboration with the Fox School of Business and Management. The degree program is designed as a career development option for students interested in technology-based ventures who desire to learn specific management techniques associated with the management of technology development and technology-based projects or the introduction of new technologies into existing organizations.

Students who complete the MS in Engineering Management learn many of the skills and approaches necessary to increase the productivity and innovative capacity of technology-driven organizations. They are exposed to aspects of management education, such as project management, IP strategy and quality management, to which they may not have previously been exposed.

**Time Limit for Degree Completion:** 5 years

**Campus Location:** Many courses are offered on Main Campus and include online components. Eventually, students will be able to complete the program entirely online. The online program requires some in-person classroom participation.

**Full-Time/Part-Time Status:** The degree program can be completed full-time in one year or part-time over two years. Part-time students may extend the completion deadline to three years, based on circumstances.

**Interdisciplinary Study:** Designed as an interdisciplinary program, the source of courses has been balanced between the College of Engineering and Fox School of Business and Management.

**Affiliation(s):** Research is supported by the Fox School of Business and Management's Innovation and Entrepreneurship Institute and Small Business Development Center. Research interests of the Fox School and College of Engineering faculty are also supported by numerous centers and institutes throughout Temple University.

**Accreditation:** The overall curriculum is designed to meet the requirements of the American Society for Engineering Management.

**Non-Matriculated Student Policy:** Students with an undergraduate GPA of 3.0 or higher may be allowed to take classes on a non-matriculated basis. Non-matriculated students may take a maximum of 9 credits. Any additional courses require the student to be matriculated in a program.

**Financing Opportunities:** For more information, contact the Department of Engineering, Technology and Management in the College of Engineering.

## Admission Requirements and Deadlines

### Application Deadline:

*Fall:*

- March 1 (International)
- June 1 (Domestic)

*Spring:* November 1

Applications are processed on a continual basis. Late applications may be considered for admission. Ordinarily, the applicant is informed of an admissions decision within 6 weeks of receipt of all supporting application documents.

*APPLY ONLINE to this graduate program.*

***Review tuition and financial assistant deadlines to ensure financial aid consideration for the intended term of study.***

### Letters of Reference:

*Number Required:* 3

*From Whom:* Recommendations should be professional references from supervisors and co-workers or academic references. References should be obtained from those who know the applicant well and who can attest to the applicant's ability to excel in the MS in Engineering Management program.

**Coursework Required for Admission Consideration:** Applicants should have a technical background in engineering, mathematics, science or technology. Two years' relevant work experience in a company is preferred, but exceptions can be made.

**Bachelor's Degree in Discipline/Related Discipline:** A baccalaureate degree in engineering, science or technology is required.

Official transcripts from all institutions of higher education attended, whether or not a degree was awarded, must be submitted. International applicants submit official transcripts or official NACES-accredited evaluation documentation that validates completion and conferral of a degree, diploma and/or certificate. All applicants must ensure transcripts and/or NACES-accredited documentation are sent directly from the institution(s) or NACES-accredited evaluation agency via email to gradengr@temple.edu or to the Temple University College of Engineering, 1947 N. 12th Street, Philadelphia, PA 19122-6077.

**Statement of Goals:** An essay on your professional plans and goals should be one to three pages in length. It should reflect your influences, values, aspirations and interest in the MS in Engineering Management program. The following questions may be addressed:

- What particular past experiences or previous exposure (academic, professional, etc.) prepared or motivated you to pursue an MS in Engineering Management degree?
- How would you expect to change over the course of the program?
- What personal and professional values and skills do you hope to acquire through the academic content?
- How will obtaining the MS in Engineering Management degree support your career objectives or potential career path(s)?
- Given the importance of teamwork and collaboration in business, what are the most significant strengths or contributions you bring to a team?

**Standardized Test Scores:**

GRE: Optional. If reported, scores that are not more than 5 years in advance of the application date are sent to test code 2945. (See Graduate School Policy 02.23.12.)

Applicants who earned their baccalaureate degree from an institution where the language of instruction was other than English, with the exception of those who subsequently earned a master's degree at a U.S. institution, must ensure official scores are reported directly by the testing agency for a standardized test of English and meet one of these minimums:

- TOEFL iBT: 79
- IELTS Academic: 6.5
- PTE Academic: 53
- Duolingo: 110

**Resume:** Current resume required.

## Program Requirements

**General Program Requirements:**

*Number of Credits Required Beyond the Baccalaureate:* 30, with a minimum of 16.5 credits taken in the College of Engineering and a minimum of 6 credits taken in the Fox School of Business and Management

*Required Courses:*

Code	Title	Credit Hours
<b>College of Engineering Courses</b>		
EMGT 5631	Design Thinking	1.5
EMGT 5632	Intrapreneurship: Managing the New Product Development Process	3
EMGT 5633	Management Principles for Innovators, Engineers and Technologists	3
EMGT 5634	Project Management Overview and Project Management Essentials	1.5
EMGT 5635	Financial Management for Technologists	1.5
EMGT 5636	Lean Six Sigma and the Science of Improvement	3
<b>Fox School of Business and Management Courses</b>		
Select courses from the following:		6
SGM 5135	Innovation Intelligence: Plan, Build, Protect, and Monetize a Technology / Innovation Portfolio	
SGM 5137	Entrepreneurial Thinking and New Venture Creation	
SGM 5138	Global Innovation Strategy: Creating Agile, Innovative, Globally-Competitive Organizations	
SGM 5139	Lean Entrepreneurship / Innovation: Fast & Frugal Methods to Launch Startups & Test Innovative Ideas	
SGM 5142	Business Model Innovation	
SGM 5144	Creativity Unleashed: Harnessing Creativity to Solve Real-World Innovation Challenges	
SGM 5145	Plan, Pitch, and Fund an Entrepreneurial Start-Up	
SGM 5148	Open Innovation and Managing Strategic Alliances	

<b>Electives</b> <sup>1</sup>		<b>7.5</b>
<b>Capstone Course</b>		
EMGT 9995	Capstone for Engineering Management	3
<b>Total Credit Hours</b>		<b>30</b>

<sup>1</sup> Students select electives from either the Fox School of Business and Management (e.g., BA 5118 Strategic Performance Management, MSOM 5806 Managing Operations in the Enterprise, SGM 5108 New Venture Creation, STAT 5001 Quantitative Methods for Business) or the College of Engineering (e.g., MIS 5108 Digital Business Strategy).

#### **Culminating Event:**

##### *Capstone Course:*

Successful completion of EMGT 9995 Capstone for Engineering Management (3 s.h.) constitutes the culminating event for the MS in Engineering Management.

## **Contacts**

### **Program Web Address:**

<https://www.temple.edu/academics/degree-programs/engineering-management-ms-en-emgt-ms>

### **Department Information:**

College of Engineering  
 ATTN: Engineering Management MS Program  
 1947 N. 12th Street  
 Philadelphia, PA 19122-6077  
 gradengr@temple.edu  
 215-204-7800

### **Submission Address for Application Materials:**

<https://apply.temple.edu/ENGINEERING/Account/Login>

### **Department Contacts:**

#### *Admissions:*

Elizabeth Spadaro  
 elizabeth.jung@temple.edu  
 215-204-7800

#### *Program Director:*

Thomas V. Edwards, DPS  
 tuc56565@temple.edu  
 215-204-7794