Engineering MEng

COLLEGE OF ENGINEERING

Learn more about the Master of Engineering.

About the Program

The Master of Engineering (MEng) degree program is designed for engineers who make their career in the engineering field and look to advance as either technical specialists and project supervisors or to move into management or sales positions. A strong skilled workforce is in very high demand as the skills gap widens in the field of engineering. Skilled engineers that can participate across disciplines are needed as industries evolve.

The MEng degree allows engineering students to achieve the unique set of technical skills required by their specialty or the business skills needed for leadership that cannot be gained through undergraduate engineering education alone. Innovation in the delivery of graduate engineering education that allows for flexibility and customization is revolutionizing post-baccalaureate education for engineers by meeting the needs of the evolving industry and fostering the management skills engineers need to innovate and lead.

The MEng degree enables students to select three graduate certificates of 9 credits each in specialized areas of engineering in accordance with their interests, combining the specialties to engage in a unique combination of cross-disciplinary training. To earn the degree, the three certificates are "stacked" along with an integrative capstone project proposed by the student. Graduates of the program emerge with technical expertise in their field as well as the leadership and business acumen required to advance in their organizations.

Time Limit for Degree Completion: 5 years

Campus Location: Online, with a mix of synchronous and asynchronous courses until all courses are asynchronous

Full-Time/Part-Time Status: The degree program can be completed on a full- or part-time basis.

Interdisciplinary Study: The degree program is inherently interdisciplinary in its design.

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
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 MEng program.

Coursework Required for Admission Consideration: 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 a STEM field is required, with a minimum GPA of 3.0 having been attained.

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 MEng program. The following questions may be addressed:

- What particular past experiences or previous exposure (academic, professional, etc.) prepared or motivated you to pursue the MEng 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 MEng 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.

**Interview:** Students applying to the MEng program may be required to interview with the department chair or a designated faculty member.

**Program Requirements**

**General Program Requirements:**
*Number of Credits Required Beyond the Baccalaureate:* 30

**Required Courses:**

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td><strong>Specialization Courses</strong></td>
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<td>27</td>
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<tr>
<td>MEE 5411</td>
<td>Introduction to Mobile Robotics</td>
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<td>MEE 5412</td>
<td>Modern Dynamics for Robotics</td>
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<td>MEE 5413</td>
<td>Robotic Manipulation</td>
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<td>MEE 5643</td>
<td>Manufacturing Engineering</td>
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<td><strong>Cybersecurity</strong></td>
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<tr>
<td>ECE 5516</td>
<td>Introduction to Communication Networks</td>
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<tr>
<td>ECE 5526</td>
<td>Engineering Principles of Computer Intrusion and Detection</td>
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<tr>
<td>ECE 5826</td>
<td>Information Theory</td>
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<td><strong>Engineering Project Management</strong></td>
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<tr>
<td>EMGT 5634</td>
<td>Project Management Overview and Project Management Essentials</td>
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<td>EMGT 5635</td>
<td>Financial Management for Technologists</td>
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<td>EMGT 5641</td>
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<td>EMGT 5642</td>
<td>Project Management - Project Planning, Implementation and Case Study</td>
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<td>EMGT 5645</td>
<td>Fundamentals of Interpersonal Leadership for Technologists</td>
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<td>EMGT 5647</td>
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<td><strong>New Product Development</strong></td>
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<td>EMGT 5631</td>
<td>Design Thinking</td>
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<td>EMGT 5637</td>
<td>Marketing Technological Products and Services</td>
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<td>EMGT 5643</td>
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<tr>
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EMGT 5645  Fundamentals of Interpersonal Leadership for Technologists
EMGT 5646  Fundamentals of Team Leadership

**Capstone Course**

ENGR 9995  Project  3

**Total Credit Hours**  30

**Culminating Event:**

*Capstone Course:*

The integrative capstone project (ENGR 9995) is proposed by the student. The project should integrate the different skills learned for each of the three specialty areas to address an industry need. A faculty member is selected to serve as an advisor for the capstone project.

**Contacts**

**Program Web Address:**

https://www.temple.edu/academics/degree-programs/engineering-meng-en-engr-meng

**Department Information:**

College of Engineering
ATTN: Master of Engineering 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 Jung
elizabeth.jung@temple.edu
215-204-7800

*Program Director:*
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215-204-7794