The Master of Engineering Management degree program is a graduate professional degree program that integrates engineering with business and management principles. The program provides engineers with business and management perspectives and enhances their capabilities in the management of major projects, business initiatives, policies, and other activities in both the public and private sectors. Furthermore, it highlights the importance of technology strategy and intellectual properties management, and offers an environment for personal and professional networking that could hold significant future dividend.

The program is offered at Penn State Harrisburg as a partnership between the School of Science, Engineering, and Technology and the School of Business Administration, which is accredited at the undergraduate and graduate levels by AACSB International—the Association to Advance Collegiate Schools of Business International.

Admission Requirements
Applicants apply for admission to the program via the Graduate School application for admission (http://gradschool.psu.edu/prospective-students/how-to-apply/). Requirements listed here are in addition to Graduate Council policies listed under GCAC-300 Admissions Policies (http://gradschool.psu.edu/graduate-education-policies/).

Applicants must have undergraduate degrees in engineering or technology from an accredited university and must have completed undergraduate course work in calculus and economics.

An undergraduate cumulative grade-point average of 3.0 or better on a 4.0 scale, and scores from the Graduate Management Admission Test (GMAT) or the Graduate Record Examination (GRE) are required for admission. Students demonstrating high potential but failing to meet the minimum GMAT or GRE score requirements may be considered on an individual basis. Furthermore, it highlights the importance of technology strategy and intellectual properties management, and offers an environment for personal and professional networking that could hold significant future dividend.

The language of instruction at Penn State is English. English proficiency test scores (TOEFL/IELTS) may be required for international applicants. See GCAC-305 Admission Requirements for International Students (http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-305/admission-requirements-international-students/) for more information.

Degree Requirements
Master of Engineering Management (M.E.M.)
Requirements listed here are in addition to Graduate Council policies listed under GCAC-700 Professional Degree Policies (http://gradschool.psu.edu/graduate-education-policies/).

All graduate students in Engineering Management are required to adhere to the requirements of Graduate Council, listed in the link above. These, however, are minimum requirements and the policies, procedures, and regulations listed below are additional and more specific for graduate students pursuing the Master of Engineering Management. Advisers will call pertinent regulations to the attention of their advisees, but it should be understood that it is the student’s personal responsibility to see that all requirements listed are satisfied.

The Master of Engineering Management (M.E.M.) is a 33-credit graduate program that integrates engineering with business and management principles. The multidisciplinary, broadly based M.E.M. program provides engineers with business and management perspectives to enhance capabilities in management of large projects. Of the 33 credits required for the degree, 30 must be earned in 500-level graduate courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 501</td>
<td>Financial Statement Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 524</td>
<td>Mathematical Methods in Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ENGMT 511</td>
<td>Engineering for Energy and the Environment</td>
<td>3</td>
</tr>
<tr>
<td>FINAN 521</td>
<td>Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>MNGMT 511</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 513</td>
<td>Marketing Management</td>
<td>3</td>
</tr>
<tr>
<td>SYSEN 505</td>
<td>Technical Project Management</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>The curriculum requires the completion of two free electives (6 credits) in any of the engineering disciplines. A list of these elective courses is maintained by the graduate program office.</td>
<td>6</td>
</tr>
<tr>
<td>Culminating Experience</td>
<td>All students are required to complete a culminating experience through a two-course capstone course sequence:</td>
<td></td>
</tr>
<tr>
<td>BUS 588</td>
<td>Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>MFGSE 550</td>
<td>Design for Manufacturability I</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>33</td>
</tr>
</tbody>
</table>

Minors
A graduate minor is available in any approved graduate major or dual-title program. The default requirements for a graduate minor are stated in Graduate Council policies listed under GCAC-600 Research Degree
Policies (http://gradschool.psu.edu/graduate-education-policies/) and GCAC-700 Professional Degree Policies (http://gradschool.psu.edu/graduate-education-policies/), depending on the type of degree the student is pursuing:

- GCAC-611 Minor - Research Doctorate (https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-600/gcac-611-minor-research-doctorate/)
- GCAC-641 Minor - Research Master's (https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-600/gcac-641-minor-research-masters/)
- GCAC-709 Minor - Professional Doctorate (https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-700/gcac-709-professional-doctoral-minor/)
- GCAC-741 Minor - Professional Master's (https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-700/gcac-741-masters-minor-professional/)

Student Aid

Graduate assistantships available to students in this program and other forms of student aid are described in the Tuition & Funding (http://gradschool.psu.edu/graduate-funding/) section of The Graduate School’s website. Students on graduate assistantships must adhere to the course load limits (http://gradschool.psu.edu/graduate-education-policies/gsad/gsad-900/gsad-901-graduate-assistants/) set by The Graduate School.

Courses

Graduate courses carry numbers from 500 to 699 and 800 to 899. Advanced undergraduate courses numbered between 400 and 499 may be used to meet some graduate degree requirements when taken by graduate students. Courses below the 400 level may not. A graduate student may register for or audit these courses in order to make up deficiencies or to fill in gaps in previous education but not to meet requirements for an advanced degree.

Learning Outcomes

1. KNOW. Graduates will be able to demonstrate mastery of core principles in engineering management.
2. PROBLEM SOLVING. 
   a. Graduates will be able to apply business strategy to solve engineering management problems.
   b. Graduates will be able to apply project management to solve engineering management problems.
3. COMMUNICATE. Graduates will be able to effectively communicate project outcomes, such as ideas, requirements, business analyses, findings, and justification for decisions.
4. CRITICAL THINKING. Graduates will be able to critically and creatively conceptualize, evaluate, and formulate engineering management problems, as well as perform the analyses required for problem definition.
5. ETHICS AND PROFESSIONALISM. Graduates will be able to demonstrate an understanding of professional and ethical responsibility and conduct themselves accordingly.

Contact

Graduate Program Head
Harrisburg
Vahid Motevalli
Rafic A Bachnak

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(717) 948-4349

Program Contact

Program Website
View (https://harrisburg.psu.edu/science-engineering-technology/engineering-science-management/master-professional-studies-engineering-management/)