ENGINEERING PROJECT MANAGEMENT - MINOR

The Engineering Project Management minor is intended to help meet the requirements of industry by educating undergraduate engineering students to understand complex engineering projects, project organizations, and project management methods. Students completing this minor will be able to work effectively in multidisciplinary engineering projects immediately after completion and to advance more rapidly within the project management organization and profession. The management of projects entails technical knowledge, engineering skills, and management skills.

To earn the minor, a student must complete credit hours that include prerequisite introductory core courses and courses selected from the following 3 categories:

1. **Business management and leadership.** The courses listed under this category provide required skills to understand the key management principles and provide leadership in project planning and execution.

2. **Economics, systems, and decisions.** The courses listed under this category provide advanced understanding of the analytical tools required to support project planning and execution.

3. **Project management applications.** The courses listed under this category provide examples of the application of project management principles.

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTDE 333</td>
<td>Project Management for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>MTDE 380</td>
<td>Seminar Series in Engineering</td>
<td>1</td>
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<tr>
<td></td>
<td>Project Management</td>
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</tbody>
</table>

**Business Management and Leadership**

Select from the following:

- ENGR 251  Creating a Self-Aware Leader
- ENGR 350  Leading for Impact in Engineering, Business and Society
- ENGR 351  The Role of Engineering and Business in Society
- ENGR 450  Finding Your Leadership Qualities
- ENGR 451  Leading for a Lifetime: Continual Learning and Influence
- ESET 319  Engineering Leadership
- MGMT 309  Survey of Management
- SOMS 380  Workshop in Leadership Education
- SOMS 381  Workshop in Leadership Education II
- SOMS 481  Seminar in Executive Leadership
- SOMS 482  Seminar in Executive Leadership II

**Economics, Systems, and Decisions**

Select from the following:

- CHEN 430/  Risk Engineering
- SENG 430
- CHEN 460/  Quantitative Risk Analysis in Safety
- SENG 460  Engineering

- CVEN 322  Civil Engineering Systems
- ESET 329  Six Sigma and Applied Statistics
- ISEN 302  Economic Analysis of Engineering Projects
- ISEN 330  Human Systems Interaction
- ISEN 350  Quality Engineering
- ISEN 440  Systems Thinking
- ISEN 442  Organizational Systems
- MMET 320  Quality Assurance
- PETE 353  Petroleum Project Evaluation
- SENG 312  System Safety Engineering

**Project Management Applications**

Select from the following: 3-9

- BMEN 469  Entrepreneurial Pathways in Medical Devices
- CSCE 482  Senior Capstone Design
- CSCE 483  Computer Systems Design
- CVEN 349  Civil Engineering Project Management
- CVEN 400  Design Problems in Civil Engineering
- CVEN 405  Construction Management of Field Operations
- CVEN 473  Engineering Project Estimating and Planning
- ECEN 403  Electrical Design Laboratory I
- ECEN 404  Electrical Design Laboratory II
- ENGR 401  Interdisciplinary Design
- ENGR 402  Interdisciplinary Design II
- ENGR 461  Engineering Product Lean Launch
- ESET 419  Engineering Technology Capstone I
- ESET 420  Engineering Technology Capstone II
- ISEN 460  Capstone Senior Design
- ITDE 401  Interdisciplinary Engineering Capstone Design I
- ITDE 402  Interdisciplinary Engineering Capstone Design II
- MEEN 401  Introduction to Mechanical Engineering Design
- MEEN 402  Intermediate Design
- MMET 429  Managing People and Projects in a Technological Society
- MSEN 401  Materials Design I
- MSEN 402  Materials Design II
- PETE 402  Integrated Asset Development

Total Semester Credit Hours: 16

Minimum required GPA to declare minor is a 2.5.

Must earn a grade of C or better in each course used towards minor.

Must achieve an overall GPA of 2.5 in approved minor coursework.