

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 a total of 16 semester credit hours that include prerequisite introductory core courses (ENGR 333 and ENGR 380) 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

| Code | Title | Semester Credit Hours |
|---|--|-----------------------|
| Core Courses | | |
| ENGR 333 | Project Management for Engineers | 3 |
| ENGR 380 | Seminar Series in Engineering Project Management | 1 |
| Business Management and Leadership | | |
| Select from the following: | | 2-4 |
| 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: | | 2-9 |
| CHEN 430/ | Risk Analysis in Safety Engineering | |
| SENG 430 | | |

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| CHEN 460/ | Quantitative Risk Analysis in Safety Engineering | |
| SENG 460 | | |
| 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 | |
| MEEN 401 | Introduction to Mechanical Engineering Design | |
| MEEN 402 | Intermediate Design | |
| MMET 429 | Managing People and Projects in a Technological Society | |
| MSEN 401 | Materials Research and Design I | |
| MSEN 402 | Materials Research and 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.