

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

Code	Title	Semester Credit Hours
MTDE 333	Project Management for Engineers	3
MTDE 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/ SENG 430	Risk Engineering	
CHEN 460/ SENG 460	Quantitative Risk Analysis in Safety 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.