ENM - Engineering Management

Engineering Management: ENM

Lower-Division Courses

ENM 380E. Topics in Management of People, Processes, Projects, and Organizations.
Restricted to students in the engineering management degree program. Explore engineering management processes and how these processes are used by administrators and managers. The equivalent of three lecture hours a week for one semester. May be repeated for credit when the topics vary. Offered on the letter-grade basis only. Prerequisite: Graduate standing.

ENM 381E. Topics in Business Foundations.
Restricted to students in the engineering management degree program. Survey important topics and foundational ideas in business, as applied within an engineering environment. The equivalent of three lecture hours a week for one semester. May be repeated for credit when the topics vary. Offered on the letter-grade basis only. Prerequisite: Graduate standing.

Upper-Division Courses

ENM 385C. Projects in Engineering Management I.
Restricted to students in the engineering management program. First course in a two-semester sequence that concludes with Engineering Management 385D. Independent project carried out under the supervision of an engineering management faculty member. Individual instruction. Engineering Management 385C and 397P may not both be counted. Offered on the letter-grade basis only. Prerequisite: Graduate standing.

ENM 385D. Projects in Engineering Management II.
Restricted to students in the engineering management program. Continuation of Engineering Management 385C or 397P. Independent project carried out under the supervision of an engineering management faculty member. Individual instruction. Offered on the letter-grade basis only. Prerequisite: Graduate standing and Engineering Management 385C or 397P.

Graduate Courses

Continuation of Engineering Management 385C or 397P. Independent project carried out under the supervision of an engineering management faculty member. Individual instruction. Offered on the letter-grade basis only. Prerequisite: Graduate standing.

Current topics in engineering management. Conference course. May be repeated for credit. Offered on the credit/no credit basis only. Prerequisite: Graduate standing and admission to the engineering management degree program.

ENM 397P. Projects in Engineering Management.
Independent project carried out under the supervision of an engineering management faculty member. Conference course. Engineering Management 385C and 397P may not both be counted. Offered on the letter-grade basis only. Prerequisite: Graduate standing and admission to the engineering management degree program.

Professional Courses

ENM 382E. Topics in Decision Making.
Restricted to students in the engineering management degree program. Explore methods to make high-quality decisions in an engineering environment. The equivalent of three lecture hours a week for one semester. May be repeated for credit when the topics vary. Offered on the letter-grade basis only. Prerequisite: Graduate standing.

Topic 1: Managing People and Organizations. Introduction to frameworks from the social sciences that are useful for understanding what effective leaders do when working with others. Engineering Management 380 (Topic 1) and 380E (Topic 1) may not both be counted. Offered on the letter-grade basis only.

Topic 2: Engineering Project Management. Explore methods for organizing, coordinating, and controlling resources to minimize risk and conflict, and to maintain budgets and schedules. Discuss the evaluation of competing alternatives, organization of a project, scheduling of tasks and resources, and the role of management. Engineering Management 380E (Topic 2) and 383 (Topic 1) may not both be counted. Offered on the letter-grade basis only.