

## ENGR 3300: Project Management

This course is required for all Engineering majors.

Course Coordinator:

Stephanie T. Sullivan

Catalog Description:

System needs and analysis identification, functional requirements analysis, project timelines, network analysis, and system development progress metrics.

Course Structure:

Two 75-minute lectures per week, semester long team based project.

Prerequisites:

ENGL 1200, Composition; ENGR 1014, Introduction to Engineering

Required Materials:

1. *Project Management, the managerial process, Fourth edition*, C. G. and E. W. Larson, McGraw-Hill, 2007, ISBN 13: 978-0073348179

Course Learning Outcomes:

Upon completion of this course each student will be able to:

- Apply basic project management principles and philosophy through a technology project.
- Define the logical stages in the life of a project and apply Microsoft Project 2000.
- Demonstrate methods, procedures, and systems for defining, planning, scheduling, controlling, and organizing project activities, by incorporating these topics in the course project.
- Evaluate and apply the organizational, managerial, and human behavioral issues relevant to project management through in class case studies.
- Perform network analysis and identify the critical path.
- Integrate financial and risk analysis into technology project development.

Lecture Topics:

- Modern project management (1 class)
- Projects/Team selection (1 class)
- Organization strategy and project selection(1 class)
- Project definition 1(1 class)
- Estimating project schedule and costs (1 class)
- Project planning (1 class)
- Managing project risk (1 class)
- Resources loading (1 class)
- Project crashing (1 class)
- Project leadership (1 class)
- Project team management (1 class)
- Organizational structures
- Project progress, EVA (1 classes)
- Project closure(1 class)
- International projects (1 class)
- The future of project management
- Team meetings (26 classes)

Laboratory/Recitation Topics:

N/A

Relevant Program Outcomes

Graduates of the engineering program will demonstrate

- d) an ability to function on multi-disciplinary teams.
- e) an ability to identify, formulate and solve engineering problems
- g) an ability to communicate effectively.

Professional Component Content:

Math/Science: 0; Engineering: 3 credits; General Education: 0

Assessment Requirements:

Student Work Samples:

- Teamwork skills
- Written report skills

Targeted Exam Questions:

- N/A

Student Course Survey

Last Review:

February 14, 2008 by Stephanie T. Sullivan