



**THE OHIO STATE UNIVERSITY**  
COLLEGE OF ENGINEERING

# Engineering Project Management

## ISE 3800

**Credit Hours:**

3.00 - 3.00

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**Course Levels:**

Undergraduate (1000-5000 level)

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**Course Components:**

Lecture

Lab

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**Course Description:**

Project management for engineers, including project life cycle, planning, optimization models, management of change and scheduling and budgeting.

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**Prerequisites and Co-requisites:**

Prereq: 2400, and enrollment in ISE major; or enrollment in Engineering Physics major; or permission of ISE Academic Advisor.

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**Course Goals / Objectives:**

- Have an understanding of the basic phases of a project life cycle
  - Have an understanding of the basic mathematical optimization models and software for planning, scheduling, and control of projects
  - Apply standard methods to plan, budget, schedule, track and close out projects
  - Have a basic understanding of how to use MS Project, the Web, information technology and other technology enablers for managing large-scale projects in the global economy involving distributed resources and virtual teams
  - Integrate project management with Continuous Improvement Process strategies such as Lean, Six Sigma, Theory of Constraints, etc.
  - Work in teams and engage with a professional organization to document how they have utilized project management methods and software to execute a real world project
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**Course Topics:**

- Course introduction: What is a project? Who is a project manager?
  - Estimating project times and costs
  - Defining the project
  - Developing the project plan
  - Scheduling resources and costs
  - Reducing project duration
  - Managing risk
  - Project control, progress evaluation and performance measurement
  - Leadership: being an effective project manager
  - Managing project teams
  - Profiles of successful project managers
  - Management of Change
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**Designation:**

Elective

Required