



**THE OHIO STATE UNIVERSITY**  
COLLEGE OF ENGINEERING

# Capstone Design II

## ECE 4905

**Credit Hours:**

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:**

Application of project management, design principles and methodology to conceptual and detailed technical design, implementation, and testing of a capstone project.

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**Prerequisites and Co-requisites:**

Prereq: 3905 and 3090, or 3906.

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**Course Goals / Objectives:**

- Demonstrate competence applying engineering design methods
  - Demonstrate competence in the management of a project
  - Demonstrate competence in a team-based environment
  - Demonstrate mastery in technical writing and presentation skills
  - Design, build, demonstrate, and report on a major project, integrating material learned
  - Be exposed to relevant engineering standards
  - Demonstrate familiarity in considering multiple realistic constraints (e.g. economic, environmental, sustainability, manufacturability, ethical, health and safety, social and political issues) while carrying out their design
  - Demonstrate the ability to develop test plan and document the results
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**Course Topics:**

- Course re-introduction, formal etiquette, group dynamics, effective professional teams and communications
  - Project execution
  - Test plans, test, test procedure, test and analysis reports
  - Final report
  - Team assessment meeting
  - Final presentation
  - Team working project
  - Independent work on project
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**Designation:**

Required