

SYLLABUS  
PART I  
EDISON COMMUNITY COLLEGE  
EGR 250S ENGINEERING TECHNOLOGY CAPSTONE PROJECT  
3 CREDIT HOURS

**COURSE DESCRIPTION**

Capstone course for all the Mechanical and Electrical Engineering Technology programs. Course includes a real-world project, utilizing the knowledge and experience gained in previous core courses in electrical and mechanical programs. Project involves utilization of design, fabrication and testing of the product the team produces. Teams progress with a formal presentation and report at the end of the project.

Prerequisite: department approval required. Lab fee.

**COURSE GOALS**

The student will:

Bloom's Level		Program Outcomes
3	1. Construct a working system.	1, 2, 3
5	2. Design the prototype system.	1, 2, 3
4	3. Troubleshoot both the hardware and software of the system.	4E,5M
3	4. Demonstrate the safety aspects of the system.	6
3	5. Report in written and oral formats on the project.	5E,7M
4	6. Explain ethical considerations involved in design.	7E,6M
3	7. Apply effective interpersonal and teamwork skills.	8

**CORE VALUES**

The Core Values are a set of principles that guide in creating educational programs and environments at Edison. They include communication, ethics, critical thinking, human diversity, inquiry/respect for learning, and interpersonal skills/teamwork. The goals, objectives, and activities in this course will introduce/reinforce these Core Values whenever appropriate.

**TOPIC OUTLINE**

1. Project Planning Using MS Project
2. Inspection
3. Final Assembly
4. Project Evaluation
5. Final Report and Presentation