ELE 491: ELECTRICAL ENGINEERING DESIGN PROPOSAL (required)

Credit: 1 hour.

Catalog Description: Discussion of educational programs, career opportunities, and modern topics in electrical engineering. Select and write proposal for senior design project.
For electrical engineering students only.

Prerequisites: Consent of department.

Textbooks(s) and/or Other Required Materials: None.

Topics Covered:
Design Planning, Example Projects
Discuss of Professor's Expertise
Example Proposals
Group Work - Draft Proposal Due
Oral Presentations

Class/Laboratory Schedule:
Lecture: 1 hour/week
Lab: none

Course Objectives and Relationship to Program Outcomes:

1. To develop a plan for solving a complex open-ended project (Outcome A, B, C, E, K).
2. To give the students a formal introduction to concepts involved with team work (Outcome D, F).
3. To teach the students how to make a good oral and written proposal (Outcome G).

In this course students will learn the fundamentals of organizing and planning engineering design projects. The use of technical skills learned throughout the undergraduate program in developing a proposal will be emphasized. The ability to communicate the importance of the project in both written and oral forms will also be stressed.

Coverage (and level) of ABET Outcomes: A (1), B (1), C (1), D (3), E (2), F (2), G (3) and K (1).

Contribution of Course to meeting the Professional Component:
Engineering Topics: 100%

Date: June 2004.