ELE 492: ELECTRICAL ENGINEERING DESIGN PROJECT (required)

Credit: 3 hours.

Catalog Description: Students use their engineering design concepts and analytical and computer tools, in conjunction with their own ingenuity, to create a new solution to a specified engineering design problem.

Prerequisites: ELE 491.

Textbooks(s) and/or Other Required Materials: N/A.

Topics Covered:
Senior Design Day Background
Engineering Ethics
Example Final Reports
Example Presentations
Oral Presentations

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

Course Objectives and Relationship to Program Outcomes:

1. To learn skill required to solve complex open-ended engineering problems (Outcome A, B, C, E, K).
2. To consider other than technical aspects in the design process (Outcome F, H).
3. To learn how present their work both in writing and orally (Outcome G).

In this course students will learn the skills needed to complete an open ended design project. The application of technical skills learned throughout the undergraduate program to the design process will be emphasized. The ability to present the final design orally and in writing will also be stressed.

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

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

Date: June 2004.