Course Syllabus

ECE188B  Senior Electrical Engineering Project  4 units
(Elective)

Catalog Description:
Student groups design a significant project based on the knowledge and skills acquired in earlier coursework and integrate their technical knowledge through a practical design experience. The project is evaluated through written reports, oral presentations, and demonstrations of performance.

Prerequisites:
ECE 188A with a minimum grade of C-; electrical engineering and computer engineering majors only.

Text, References, and Software:
Varies with the particular project.

Course Requirements:
1. Continuation of project. It is expected that the groups will continue to meet and make progress on their project in winter quarter. In spring quarter, the senior capstone project is to be completed. Detailed verification of the soundness of the design must be presented during the first week. Critical prototypes or experiments should have been completely evaluated in the winter off quarter. Implementation will proceed immediately.
2. Testing. Hardware or software required for testing must be prepared. Evaluation of the project must be completed.
3. Presentations. A presentation is required at the beginning of the quarter as a secondary design review. At the end of the quarter, each group will be responsible for preparing a poster and a powerpoint presentation for the Senior Capstone Public Event. The audience will include the general public, faculty, staff, students, and industrial visitors.

Class/Laboratory Hours:
The course is similar to independent research. Meetings are scheduled with the faculty mentor for the particular project. Each student group will meet together weekly, keeping detailed minutes of the meetings.

ABET Contributions:
1. Criterion 5. ECE188A in conjunction with ECE188B will prepare students for engineering practice by consolidating skills acquired in previous courses and incorporating realistic constraints and appropriate engineering standards.

Contribution to Program Outcomes:

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Prepared by:  Stephen Long  Date:  March 15, 2008