ESC 450 – Senior Design Project
Syllabus

Credit:
2 semester hours

Prerequisite
Senior standing, Engineering Physics major

Course Description
Independent research, design, and presentation of results for a student selected and advisor approved project.

Rationale for Course
In general, the study of physics gives students an in-depth understanding of the fundamental principles that govern the physical world around us, and a set of cognitive and technical skills which include thinking analytically, defining and solving problems, and collecting and analyzing and interpreting data. Applied physics majors should be able to use the skills described above to design and develop a purposeful real world application that draws from their background in theoretical physics. This course gives students that opportunity.

Learning Objectives
These will vary for each specific project; however in all cases the student will develop research, design, and communication skills.

Academic Integrity
Students are expected to be honest and to submit their own work on exams and research papers. Adherence to the Mississippi College "Honesty Policy" (2009-2010 *Mississippi College Undergraduate Bulletin pg. 60*) will be followed.

Required Textbook
These will vary for each specific project. The student may, when appropriate, consult a number of books and articles from the library.

Grading
The educational experiences offered by this course are individualized; therefore, the requirements and expectations for grades will vary from project to project.

Absences
Mississippi College policies on attendance and academic integrity will be enforced. Please see the 2009-2010 *Mississippi College Undergraduate Bulletin, pg. 56-57* for additional details of these policies. Students are responsible for work missed during an absence.

Special Needs
If you need special accommodations due to learning, physical, psychological or other disabilities, please contact Dr. Buddy Wagner in the Counseling and Career Development Center. He may be reached by phone at (601) 925-3354.