Course Description
The capstone senior design course is a comprehensive electrical engineering design course designed to satisfy ABET engineering design criteria. Each and every senior project will be reviewed by ABET evaluators. Students may choose a design topic in VLSI, communications, Signal Processing or any other relevant electrical engineering area. Substantial design work is required for passing this course. The course is administered as a two-semester sequence of courses EENG 4910 and EENG 4990. During the first part (EENG 4910), students are expected to develop a comprehensive project proposal and conduct research that results in a conceptual design. In the second part (EENG 4990), detailed design, implementation, and documentation are conducted. The project deliverables include a final report, oral presentation, and demonstration of the project. All work submitted must be approved by the faculty advisor.

Textbooks
No required books, but please check course material in Black Board.

Prerequisite
EENG 3810, 3910 and 3920

Grading Policy
- Attendance – 5%
- Class Participation/Assignments/Discussion – 15%
- Project proposal – 10%
- Progress report – 20% (At the end of the semester).
  
  The report should follow the guidelines that will be discussed in class. The report will be graded for inclusion of a thorough discussion related to ethics, contemporary issues, globalization, and engineering standards. References cited should be mostly among textbooks and technical scholarly journals, not web page citations).
- Project – 50%

Learning Outcomes
After completing the course students will able to:
1. Design a system or process to meet specifications with engineering constraints.
2. Function as a member of an engineering team.
3. Utilize technical resources both from prior coursework, as well as from other relevant sources.
4. Demonstrate excellent written and oral communication skills related to design project results.
5. Demonstrate an understanding of ethical and professional issues as well as engineering standards related to their projects.
6. Demonstrate an understanding of contemporary issues as related to their projects.

Class Schedule (tentative)
1. Project Proposal + Engineering Design
2. Professionalism and Ethics + Hyatt Regency Walkway
3. Contemporary Issues. (Proposals will be returned.)
4. Globalization Discussion
5. Engineering Standards and Realistic Constraints.
6. Guest Lecture

General Comments
- Students are encouraged to discuss class material and homework in order to better understand concepts. However, all the homework you submit must be of your own. Direct copying of a solution (from a friend or a book) will be considered as plagiarism and a violation of the University Honor Code.
- Homework assignments are to be turned in at the beginning of the class on the due date. Late submission (Homework and Project) will not be accepted.
- All students are responsible for announcements made in lecture, on the student access website, or via the class email list.
- It is the responsibility of students with certified disabilities to provide the instructor with appropriate documentation from the Dean of Students Office (see http://www.unt.edu/oda).