

CIVIL AND ENVIRONMENTAL ENGINEERING DEPARTMENT SCHEDULE AND POLICIES

CE 4910W – Civil Engineering Projects
Fall 2013, Tues/Thurs. 2:00 – 5:00

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Catalog Description: CE 4910W Civil Engineering Projects

Either semester. Three credits. Two 3-hour laboratory periods.

Prerequisite: Departmental consent required. This course can be taken no sooner than the semester in which the student completes the Professional Requirements for the B.S. degree.

Design of Civil Engineering Projects. Students working in multi-disciplinary teams design and evaluate solutions to Civil Engineering projects using engineering standards and considering the following realistic constraints: economic, environmental, sustainability, constructability, ethical, health, and safety, social and political. Results are reported using oral presentations, graphical design tools, and written reports."

Course Objectives

This course is the "Capstone Design Course." Its purpose is to have students apply knowledge of science and engineering towards solving specific, significant engineering problems.

Consequently, upon successful completion of this course, each student will have demonstrated an ability to do the following:

- 1) Recognize the pertinent issues surrounding an engineering problem.
- 2) Write a clear, coherent, technical proposal for designing a solution to the problem.
- 3) Design a solution to the problem that considers the unique context in which it is posed.
- 4) Present solution to both technical and non-technical audiences in oral, written, and graphical form.

Weekly Class Schedule: Class meets weekly with faculty advisor and periodically with sponsor (if different) at times to be arranged or as shown. This is tentative and may be amended by your faculty advisor:

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| 1 | Tues. Aug. 27 | Introduction, Course requirements, Student backgrounds, Projects |
| | Thurs. Aug. 29 | Cover letter, Resume & 'Who Am I' due electronically by 2:00 PM |
| 2 | Tues. Sept. 3 | 2:00 Group assignments and preliminary discussions |
| | Thurs. Sept. 5 | Rewrite of cover letter due electronically by 2:00 PM |
| 3 | Week of Sept. 9 | Time TBD: Groups MUST meet with sponsors this week (or sooner) |
| 4 | Week of Sept. 16 | Oral Progress report |
| 5 | Week of Sept. 23 | Draft Proposal due, Discuss oral presentation, |
| 6 | Week of Sept. 30 | Draft Proposal returned; Meet with sponsors during this week |
| 7 | Tues. Oct. 8 | Written Proposals Due, Oral Presentations to class (10-15 min.) |
| 8 | Week of Oct. 14 | Progress report |
| 9 | Week of Oct. 21 | Progress report |
| 10 | Week of Oct. 28 | Progress report |
| 11 | Week of Nov. 4 | Progress report |
| 12 | Week of Nov. 11 | Progress report |
| 13 | Week of Nov. 18 | Progress report |
| 14 | Thurs. Dec. 5 | Oral Presentations (20-30 min.) with Posters |
| | Fri. Dec. 6 | Written Project Reports due by NOON |