

**CEE 504**  
**Integrated Design I**

**Catalog data:** 20-CEE-504. Integrated Design I. 2 ug. cr. Integrated Design is a 3 quarter, team driven, multi-disciplinary design experience. Students are guided by a panel of UC CEE faculty members and representatives from industry. Each student will be given a real-world design problem to complete in the 3 quarters allotted.

**Prerequisites:** senior year status

**Textbook:** None. Handout material provided through quarter.

**References:** None

**Coordinator:** Prof. John C. Niehaus, Adjunct Associate Professor of Civil Engineering; 556-3698, 788 Rhodes Hall, John.Niehaus@uc.edu

**Goals:** The principal goal of the course is to develop and hone skills related to oral and written communication of technical ideas, working together productively in teams, encountering and addressing problems and situations that sometimes are “out of the box”, group organization, project management, synthesizing existing technical information and independent learning. The project is a *real* one, not contrived, that will give the students the experience of planning, designing and seeing the project move toward implementation.

**Lecture or lab topics:**

1. What is IDS?? Introduction/explanation of course (2 classes)
2. Overview of project and fieldtrip to site (2 classes)
3. Civil Engineering subdiscipline aspects of project (6 classes)
4. Teams work on projects in class. Faculty team advising (4 classes)
5. Status reviews. Teams review project with Mentor team (1 class)
6. Writing reports & giving presentations (1 class)
7. Teams begin report writing & presentation preparation. Faculty team Advising (3 classes)
8. Team presentations to Mentors & Faculty (1 class)

**Computer usage:** Varied

**ABET criterion 3:** a, c, d, e, f, g, h, i, j, k

**ABET criterion 8:** a, b, d, e

**Date prepared:** March 25, 2004, Last Update April 25, 2007