53:116 Computer-Aided Design for Civil & Environmental Engineering
The University of Iowa
Spring Semester 2011

Instructor: Professor Colby C. Swan, Ph.D.
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Civil & Environmental Engineering
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Lectures: MWF 9:30-10:20am, 1245 SC

Course Goals:

1. This course will provide a fundamental understanding of how contemporary drawing and design software works and how much time/effort is required to complete different tasks.
2. Upon completing this course, you will be able to express your designs of civil engineering projects using professionally accepted practices and conventions.
3. You will also be able to thoroughly understand engineering drawings generated by others.

Course Organization:

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<th>Weeks 1-6</th>
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<td>Usage of AutoCad</td>
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<td>Weeks 7-11</td>
<td>Usage of Civil 3D</td>
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Reference Books: (Purchase is optional)

**AutoCad:**

**Civil 3D:**
Revit:

Course Grading:
- Homework Assignments: 20%
- Final Project: 35%
- Three Midterm Exams: 45%