CIVE 305 Intermediate AutoCAD Fall 2016

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Wed, 9:00 – 11:00 am
Or by appointment

Course Description

CIVE 305 is divided into three segments: AutoCAD (ACAD), AutoCAD Civil 3D, and Revit. The first segment covers development of intermediate AutoCAD skills. Exercises include using AutoCAD to create a simple residential Floor Plan and a Site Plan. The purpose of the second segment, AutoCAD Civil 3D, is to provide the student with computer-aided design experience specific to Civil Engineering professional practice. Topics include development of Road Alignments and Profiles, Road Corridors, Grading, Pipe Networks, and Quantity Take-Off Sections. The final segment, Revit, is a Civil Engineering and Architectural CAD application with advanced design capabilities. Revit is used for both interior as well as exterior design of residential and commercial projects, and large public works projects. Building Information Modeling (BIM), integration of Mechanical, Electrical, and Plumbing (MEP) systems, and Rendering are key features of Revit.

Policies

It is imperative that you attend classes. There will be demonstrations of techniques and instructions for assignments as well as explaining hand out materials and other materials provided on-line. If you do not attend class, you are still responsible for seeking material and assignments that were missed. This policy is in consideration of students who have attended the class lecture and lab. Homework and Lab Assignments not submitted will be given a grade of ZERO. Late work will be accepted however there will be a letter grade reduction of each day that it is late.

If you MUST miss class, please e-mail or call prior to the scheduled class.

There will be times when student activities may conflict with class time. Examples are ASCE activities and the Engineering Fundamentals exam review. In these cases, the syllabus schedule will be modified so that you have an opportunity to turn your work in late without a penalty. Class will still be held for those that do not attend these meetings.
Cell Phones

Please turn-off your cell phone during the Lecture period. During the Lab period, please turn your cell phone ring-tone to ‘vibrate’ or ‘soft’ and take the call outside.

Cheating

University Goals:

- To create professional development activities that will increase understanding of issues related to academic integrity.
- To disseminate educational and informational strategies focused on preventing academic misconduct.
- To assist student understanding of procedures when suspected incidents occur.
- To encourage and facilitate visible manifestations of the university’s culture of academic integrity, including the development and implementation of a student honor pledge.

Consequences for cheating will result in automatic FAILURE of course and formal notification to the Department of Civil and Environmental Engineering.

Grading and Evaluation:

Grading will be based upon Homework Assignments, 3 Midterm Exams and a Final Exam:

- ACAD HW, 15 @ 25 pts / HW assignment = 375
- ACAD Civil 3D HW, 11 @ 25 pts / HW Assignment = 275
- REVIT HW, 12 @ 25 pts / HW assignment = 300
- ACAD Exam = 200
- ACAD Civil 3D Exam = 200
- REVIT Exam = 200
- Final Exam = 300
- Class Participation = 50

Total Points = 1900
Letter grades are evaluated on 1900 point scale:

- **A+** 93 % 1767 – 1900 pts.
- **A, A+** 90 % 1710 – 1766 pts.
- **B+** 86.7 % 1647 – 1709 pts.
- **B** 83.3 % 1582 – 1646 pts.
- **B-** 80. % 1520 – 1581 pts.
- **C+** 75 % 1425 – 1519 pts.
- **C** 70 % 1330 – 1424 pts.
- **D** 60 % 1140 - 1329 pts.
- **F** Below 1140 pts.

**Exams**

There will be three exams: for AutoCAD, AutoCAD Civil 3D, and Revit, each worth 200 points and a final exam worth 300 points. The exams are scheduled as shown in the syllabus. **Missed exams (except those excused beforehand) will result in a zero and cannot be re-taken.** Make-up exams and the final exam will be given per Colorado State University policy for excused absences such as a Doctor’s excuse due to illness.

**Optional Textbook**