

**Central Washington University / Department of Industrial and Engineering Technology
IET 161, Architectural Computer Aided Design / Winter Quarter 2011**

Description: Introduction to architectural design and Building Information Modeling (BIM) using Revit Architecture. The student will learn the basics of 3D Computer Aided Design (CAD) in an architectural and construction related format. The student will produce and present architectural models and construction drawings. Approximately two hours lecture, four hours laboratory with 6 hours of student lab work per week.

Textbook: Introducing Autodesk Revit Architecture 2011 by Patrick Davis, Charlie Busa, Beau Turner and Stephen Stafford, Wiley Publishing, Inc.

Supplies: 4GB or more flash or thumb drive.

Instructor: Chris Scarlett, MSET, CSWP, Electrical Design Engineer, Adjunct Professor, freelance modeler, draftsman and small business owner.

Email: cscarlett@fairpoint.net , chris@e-d-and-i.com , (scarlech@cwu.edu infrequently used)

Course Schedule and Grade Sheet are available online and updated frequently at:

<http://e-d-and-i.com/IET-161-W2011>

Office hours: Tuesdays and Thursdays after class, by appointment or by phone.

Phone: 509-899-2732

Learner Outcomes: (Course Objectives)

Outcome	Assessment Strategy
1. To gain a working knowledge in the production of architectural modeling and drawings using standard presentation formats, dimensioning and annotation techniques.	Design assignments, design portions of examinations and the Final Project.
2. Demonstrate the ability to understand concepts and terminology as explained in the textbook and in lecture.	Periodic assessments involving short answer examinations.
3. Demonstrate the ability to produce basic design documents under a time constraint.	Periodic assessments involving the creation and modification of design documents during examinations.

Assessments:

Item	Percentage
2 exams and Final Project (three items total)	50%
Weekly design assignments	50%

You will receive a letter grade as a final assessment in this class based on the following scale:

A = 92 or higher, A- = 89 – 91, B+ = 86 – 88, B = 83 – 85, B- = 80 – 82, C+ = 77 – 79, etc...

Design Assignments: Weekly design assignments will be due in the box or by email by Friday at 5pm, unless instructed otherwise. Assignments will be properly labeled, dimensioned and with a title block. Maximum points will be 10 points per assignment (unless extra credit work is demonstrated).

- Assignments will be returned for corrections, if needed, and can be submitted for re-grading on the following Friday. If re-graded, an assignment can only achieve a maximum of 8 points. Assignments missed the first week may be graded the following week for a maximum of only 7 points.
- **Assignments more than a week late will not be graded and will receive a 0.**

Examinations: are approximately every 3 to 4 weeks and will consist of multiple-choice, true false and short answer questions plus a design assignment, both are to be done in class under a time constraint usually within two hours.

- Points will be split evenly between both portions of the exam.

General statement about missed class: In all fairness to the class as a whole; if you miss class for what ever reason it is your responsibility to make up the work according to the schedule. Lectures or portions of lectures will not be repeated. If you miss assignment or examination deadlines without prior arrangements you will not get a grade for the missed work. Exceptions will only be made to this policy under extraordinary circumstances (medical or family emergencies etc...) and only with proper documentation.

Cheating: Your work has to be original and unique. If caught cheating you will fail the class!

ADA Statement: Students who have special needs or disabilities that may affect their ability to access information and or material presented in this course are encouraged to contact the ADA Compliance Officer, Director, ADA Affairs and Students Assistance on campus at 963-2171 for additional disability related educational accommodations.