

**Central Washington University / Department of Industrial and Engineering Technology
IET 161, Architectural CAD (Computer Aided Design), using AutoCAD and Revit Architecture / Fall 2011**

Catalog Description: IET 161. Introduction to architectural design and Building Information Modeling (BIM) using AutoCAD and Revit Architecture. The student will learn the basics of 2D and 3D Computer Aided Design (CAD) in an architectural and construction related format. An outcome of this class will be the production and presentation of architectural models and construction drawings. Approximately two hours of lecture, four hours laboratory with 6 hours of out of class student lab work per week.

Instructor: Chris Scarlett, 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), phone: 509-899-2732

Office: Hogue 300H Tuesdays and Thursdays 2pm – 4pm, by appointment or by phone.

Textbook: [Introducing Autodesk Revit Architecture 2012](#) by Patrick Davis, et al, Wiley Publishing, Inc.

Supplies: 4GB or more flash or thumb drive

Class Website: <http://e-d-and-i.com/Classes/2011-3-IET-161/>

Learner Outcomes: (Course Objectives)

Outcome	Assessment Strategy
1. To gain a working knowledge in the production of architectural computer models and design documents using standard presentation formats, dimensioning and annotation techniques.	Design Assignments, design portions of examinations and the Final Project.
2. Demonstrate the ability to understand basic concepts and terminology as explained in the textbook and in lecture.	Periodic assessments involving the written portions of examinations using short answers, multiple choice, matching and true/false questions.
3. Demonstrate the ability to produce basic design documents under a time constraint.	Periodic assessments involving the creation and modification of design documents during in class evaluations and examinations.

Assessments:

Item	Percentage
Examinations (2) and the Final Project, (3 items total)	50%
Design Assignments, weekly	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: Student progress is evaluated weekly by the handing in of printed drawings or by an In Class Evaluation usually on Tuesdays with a time constraint. Assignments will be evaluated for completeness and timeliness and awarded a maximum point value of 10 points. Design Assignments will be returned for corrections by the next class meeting and can be submitted for re-grading by the upcoming Friday. Re-graded Design Assignments can only achieve a maximum of 8 points. Missed assignments may be submitted by the upcoming Friday for a maximum of only 7 points. Missed assignments more than a week late will not be graded. Missed In Class Evaluations will receive a 0.

Examinations: there will be 2 exams per quarter in 2 portions. The written portion will include short answers, multiple choice, matching and true/false questions. The design portion will involve a small project. Both elements of the exam will be completed in class under a time constraint. Points will be split evenly between the 2 portions.

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 missed. Class material covered once will not be repeated. If you miss an in class evaluation or an examination without prior arrangements you will not get credit for the missed work. Exceptions will only be made to this under extraordinary circumstances (medical or family emergencies etc...) and only with proper documentation.

Cheating: Your work has to be unique and original to this class. 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.