

**CENTRAL WASHINGTON UNIVERSITY  
INDUSTRIAL AND ENGINEERING TECHNOLOGY**

**IET 160: Computer Aided Design and Drafting: AutoCAD, 4 credits**

**Faculty Information:**

Instructor: Scott Calahan

Office: Hogue Technology, Room 206

Office Hours: 1:00 – 1:50 M, W, and 11:00-11:50 T, R, and by appointment

Telephone: 963-3218

E-mail: [Calahans@cwu.edu](mailto:Calahans@cwu.edu)

**Course Prerequisites:** None

**Course Description:** Hands on training in the operation of AutoCAD’s design and drafting software system with emphasis on features, limitations, and dimensioning strategy.

**Textbook and Other Required Materials:**

1. Terry T. Wohlers, Applying AutoCAD 2005: A Step-By-Step Approach, Glencoe McGraw-Hill, 2005
2. One storage “device” (jump drive preferred)
3. Three-ring binder (notebook) to store handouts and assignments

**Learner Outcomes:**

<b>Outcomes</b>	<b>Assessment</b>
The student will operate the AutoCAD software to produce specific geometric shapes using specific drawing commands.	Direct observation by instructor and weekly drawings produced by the student.
The student will be able to set up a drawing with correct scale.	Tests and weekly drawings produced by the student.
The student will be able to draw with precision and modify objects with edit commands.	Tests and weekly drawings produced by the student.
The student will be able to dimension and add text to drawings.	Tests and weekly drawings produced by the student.
The student will be able to display any portion of a drawing and plot drawings with a simple layout view.	As assigned, drawings will be displayed on screen and/or be printed by student.

**Course Topics and Content Outline:**

See course schedule with topics on separate sheet.

**Instructional Methods:**

1. Instructor-led discussions, examples and lecture.
2. Individual and cooperative lab experiences
3. In/out of class assignments.

**Assessment/Grading:**

1. All assignments must be turned in by the due date (during class) to receive full credit.
2. Each drawing will be properly labeled including full name, drawing name, and date.
3. Late assignments will be accepted one day beyond due date for ½ credit.
4. Directions for all assignments will be given. If specific directions are not provided by the instructor, the text directions will be followed.
5. Returned assignments should be kept in the notebook in chronological order.
6. Exams must be taken during class on the date assigned unless provisions are made in advance.

**Advice:**

1. Missing class is strongly discouraged. Not only will your assignments be counted as late, but you will miss important lecture and can get “behind” easily.
2. The CAD lab is open in the evenings and certain weekends. (see master schedule) Take advantage of these opportunities.
3. Daily drawings are meant to build skills. A large percentage of what you learn will come from practice not lecture. Be sure to learn shortcuts and commands through daily drawings and chapter reading/problems. This will save time and better prepare you for the exams and CAD drafting professionally.
4. Be sure to update your calendar daily as changes may take place.

The following grade scale will be used for all exams and assignments:

Drawing assignments, review questions, notebook, etc.	60% of total grade
Exam #1	10% of total grade
Exam #2	10% of total grade
Exam #3	10% of total grade
Exam #4	10% of total grade

Final Grades will be based on the following:

**A** = 94%-100%, **B+** = 87-89%, **C+** = 77-79%, **D+** = 67-69%, **F** = below 60%  
**A-** = 90%-93%, **B** = 83-86%, **C** = 73-76%, **D** = 63-66%,  
**B-** = 80-82%, **C-** = 70-72%, **D-** = 60-62%

**ADA STATEMENT:**

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

Fall/06