

INTRODUCTION TO COMPUTER AIDED DRAFTING

CAD 150T

Instructor: Alex Sanchez (ph 925-8716)

Office Hours:

Mon/Wed 3:15-4:00

Tues/Thur 1:00-3:30

COURSE DESCRIPTION: The purpose of the course is to introduce students to computer-assisted design. The course consists of lectures and lab assignments using Sketchup and the current version of AutoCAD. Students will also gain experience using Internet CAD resources. You should schedule at least two hours per week (outside of class time) in the lab to complete assignments.

TEXT: the text is recommended but not required

Illustrated AutoCAD 2012 Quick reference, R. Grabowski, ISBN 1111648492

ATTENDANCE:

Attendance is necessary for you to fully understand the material presented. You are responsible for “signing-in” to document your attendance.

“Students are required to attend all meetings of their classes unless excused by the instructor. A student with excessive absences may be dropped from a course with a grade of W by an instructor. Absences due to illness, field trips, athletic trips, and so forth do not relieve the student of the responsibility for missing assignments. It is the obligation of the student to take the initiative in arranging with the instructor to make up missed work.” (UNM Valencia Catalog)

GRADING: Students are graded on the basis of tests and drawing assignments.

Drawing assignments 60%

Mid-term and final 40%

Letter grades	100% or higher = A+
	91%-99% = A
	81%-90% = B
	71%-80% = C
	61%-70% = D
	Below 60% = F

LIBRARY USE: A list of books and periodicals will be provided during the first week of class.

MAIN COURSE OBJECTIVES:

1. Introduce students to computer-aided design software
2. Learn how to create drawings and 3D models using design software.
3. Learn efficient, organized approaches to problem solving using a CAD system.

REQUIRED MATERIALS: You will need a ring binder and storage media for your files (Zip disks or flash memory devices).

SPECIAL NEEDS: If you are a qualified person with disabilities, who might need reasonable accommodations in academic settings, please communicate with me as soon as possible so that we may make appropriate arrangements to meet your needs. If you have a documented disability, please provide me with a copy of your letter from Equal Access Services as soon as possible to ensure that accommodations are provided.

e-mail address (alexs@unm.edu)

Course schedule

Week 1 Introduction to CAD concepts using Sketchup

Week 2 File types, coordinate systems, command categories, operating system basics

Week 3 Drawing set-up, drawing commands

Week 4 Utility commands and drawing tools, object snaps

Week 5 Layers

Week 6 Display control commands

Week 7 Introduction to dimensioning

Week 8 Dimensioning cont., **Mid-term review, Mid-term**

Week 9 Drawing commands

Week 10 Drawing commands, object selection

Week 11 Editing commands

Week 12 Special line types

Week 13 Dimensioning cont.

Week 14) Plotting and printing, Hatching and boundaries

Week 15 Drawing components and Blocks, **Final review**