

# INTERMEDIATE COMPUTER AIDED DRAFTING

## CAD 260

Instructor: Alex Sanchez (ph 925-8716)

alexs@unm.edu

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Office Hours:

T/TH 1:00-4:00

M/W 1:00-1:30

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**COURSE DESCRIPTION:** Intermediate Computer Aided Drafting is the second course in the CAD Certificate sequence (prerequisite: Intro. to CAD 150T). Topics covered by this course include intermediate and advanced AutoCAD commands, 3D modeling, and 3D-design presentation. Throughout the course students will learn various techniques used to produce drawings efficiently.

**TEXT:** No text required, but *3D AutoCAD 2011: One Step at a Time* by Timothy Sean Sykes is recommended for reference

**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. "(from the UNM Valencia Catalog)*

**GRADING:** Students will be 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. Learn how to create and manipulate 3D models.
2. Learn how to render and present 3D models.
3. Learn how to tailor and optimize AutoCAD.

**REQUIRED MATERIALS:** Each student will be required to purchase a flash memory stick or equivalent storage media.

**Computer Lab Responsibility:**

*Please be advised that use of computer labs on UNM properties is governed by “Policy 2500: Acceptable Computer Use” which can be found at <http://policy.unm.edu/university-policies/2000/2500.html>.*

*Food and drink are also prohibited in any computer lab on campus. Anyone violating these policies is subject to possible suspension and loss of computer lab privileges.*

**UNM Net ID**

*Beginning Fall 2015 semester, all UNM-Valencia students will be required to have a UNM Net ID which can be created by going to: <http://it.unm.edu/accounts/>*

*. UNM Net ID will give you access to the computer labs on campus, blackboard learn and UNM Email. Make sure to update this information as your method of contact under personal information on Lobo Web.*

**Academic Integrity**

Having academic integrity is paramount to your success in any class. Plagiarism or cheating is not tolerated. Any instance of this will result in a grade of zero for that assignment. Here is the link to the UNM Academic Dishonesty Policy:

<https://policy.unm.edu/regents-policies/section-4/4-8.html>. The policy states:

*Each student is expected to maintain the highest standards of honesty and integrity in academic and professional matters. The University reserves the right to take disciplinary action, up to and including dismissal, against any student who is found guilty of academic dishonesty or who*

*otherwise fails to meet the expected standards. Any student judged to have engaged in academic dishonesty in course work may receive a reduced or failing grade for the work in question and/or for the course.*

Academic Dishonesty is defined as:

*"Academic dishonesty" includes, but is not limited to, dishonesty in quizzes, tests, or assignments; claiming credit for work not done or done by others; hindering the academic work of other students; misrepresenting academic or professional qualifications within or without the University; and nondisclosure or misrepresentation in filling out applications or other University records.*

***Students with disabilities should notify me of special needs at the beginning of the semester.***

If you have a documented disability, the Equal Access Services office will provide me with a letter outlining your accommodations. I will then discuss the accommodations with you to determine the best learning environment. If you feel that you need accommodations, but have not documented your disability, please contact Jeanne Lujan, the coordinator for Equal Access Services at 925-8910 or [jmlujan@unm.edu](mailto:jmlujan@unm.edu).

# Intermediate CAD

## Course schedule

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Week 1 Introduction, 3-D model types (Chapter 1)

Week 2 3D Display control

Week 3 Solid modeling (Chapter 5)

Week 4 Solid modeling cont.

Week 5 Solid modeling and 3-D Editing (Chapter 6)

Week 6 Solid Editing

Week 7 (Chapter 9) Presentation techniques

Week 8 3-D summary, **Mid-term review, Mid-term**

Week 9 AutoCAD 2015 features and benefits

Week 10 Plotting/Printing

Week 11 External references

Week 12 Blocks and Attributes

Week 14 AutoCAD optimization

Week 15 Templates, Block libraries, and Office Standards

Week 16 **Final review, Final**