

APPLIED TECHNOLOGY 46
Introduction to Computer-Aided Drafting

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COURSE DESCRIPTION

Introduction to the AutoCAD Computer-Aided Drafting Program. The students will learn the basics of the program through lecture and hands-on experience using the personal computer and related equipment in the computer drafting lab. Several different types of technical drawings will be covered during lecture/demonstration, and produced by the student utilizing the AutoCAD Program.

Student Learning Outcomes:

Upon successful completion of this course, students will be able to:

1. Produce CAD projects that utilize geometric construction/editing, orthographic projection, dimensioning and text annotations.
2. Produce prints/plots from student prepared CAD files.

AREAS TO BE COVERED IN LECTURE/DEMONSTRATION

1. Introduction to the computer drafting lab
2. Uses and structure of AutoCAD and its equipment
3. Review of the different types of technical drawings to be produced and proper working drawing formats
4. Drawing environment setup
5. Geometric constructions
6. Multi-view projections
7. Drawing annotation
8. Plotting

TEXT MATERIALS

Note: All necessary materials will be handed out in class. There is no required text book for this course.

ASSIGNMENTS

A total of 12 assignments (20 pts. each) will be required. All assignments will be evaluated by viewing your drawing files at a computer. In addition, seven drawings will be plotted on paper and handed in. Plots are due on the scheduled dates. Your hard-copies will be evaluated with a possible two points being earned for each correct plot. Late work will be penalized 10% of its original point total.

EVALUATION

Two quizzes (30 pts. each) will be administered. See the course schedule for quiz dates. There is no make-up of quizzes.

A final exam (60 pts.) will be given at the end of the course. A final course grade, based on total points will be given on the following scale:

90% - 100%	A
80% - 89%	B
70% - 79%	C
60% - 69%	D
Below 60%	F

Attendance at all class meetings is extremely important. Each absence will result in **5 points being deducted** from your overall point total.

APPLIED TECHNOLOGY 46 Assignment Schedule

<u>MW CLASS DATES</u>	<u>ASSIGNMENTS</u>	<u>DUE DATES</u>
3/25, 3/30	(1) Drawing Lines	4/1
4/1, 4/6	(2) Title Block/Diagram	4/6
4/6, 4/8	(3) Geometric Construction #1	4/13
4/8, 4/13	(4) Geometric Construction #2	4/15
4/15	QUIZ #1 (Assignments 1, 2, 3, 4)	
4/15, 4/20	(5) Orthographic Projection #1	4/22
4/20, 4/22	(6) Orthographic Projection #2	4/27
4/27	(7) Isometric Drawing	4/29
4/29, 5/4	(8) Floor Plan	5/6
5/4	(9) Dimensioning #1	5/11
5/6	QUIZ #2 (Assignments 5, 6, 7, 8, 9)	
5/6	(10) Dimensioning #2	5/11
5/11	(11) Blocks	5/13
5/13, 5/18	(12) Intro to 3D	5/20
5/20	FINAL EXAM (Comprehensive)	

* Quizzes and Final Exam will include a written section (based on lectures) and a drawing reflecting recent class assignments.