

Instructor: Mike Hubka
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Office Hours: Posted
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Credit hours: 3 Contact: 5 Hrs. Lecture: 2 hrs. Lab: 3 Hrs.

Program/Degree: Drafting and Design Technology / Associate in Applied Science Degree

Description: This course covers intermediate-level concepts and applications of CAD design and drafting. Emphasis will be placed on intermediate-level features, commands, and applications of CAD software. Upon completion, students should be able to plot their drawings to the plotter as well as a printer, have a better understanding of model space and paper space and be able to dimension their drawings. Students will also work with section views and hatching commands.

Prerequisites: DDT 103 or Permission of Instructor

Text: AutoCAD and its Applications Basics - Release 2002
Terence M. Shumaker/David A. Madsen
Goodheart/Wilcox Publishers

Supplies: Two 3.5 - 1.44 Mb floppy disks or one Zip disk

Course Rationale: Basic skills in Computer Aided Drafting (CAD), is only the beginning of a continuing process of maintaining proficiency in the use of CAD and remaining current new advancements in the industry. This course is designed for the beginning student as a continuing learning process towards the use of more complex and powerful CAD commands and techniques. Knowledge and understanding of these advanced CAD concepts will enhance the student's CAD experience and will better prepare the student toward an entry level position. To accomplish these goals, this course provides:

1. Entry level or senior drafters hands on applications in the use of CAD under simulated work environment
2. Advanced CAD commands and procedures.
3. Introduction to the hatching, dimensioning, and plotting.

Course Objectives:

1. Use CAD to prepare a working drawing for machine parts including dimensioning, and plotting drawings.
2. Create prototype drawings to be used in subsequent CAD experience.
3. Define terms and attributes of advanced CAD commands and techniques.

Assignment Schedule

Week	Topic	Assignments
1 1/10	Review -	As Assigned By Instructor
2 1/17	Chapter 10 – Plotting	As Assigned By Instructor
3 1/24	Chapter 11 – Editing Copy Move, Trim Extend	As Assigned By Instructor
4 1/31	Chapter 11 Rotate Stretching Scale	As Assigned By Instructor
5 2/7	Quiz 1 Chapter 12- Grips	As Assigned By Instructor
6 2/14	Chapter 13 Working with AutoCAD files	As Assigned By Instructor
7 2/21	Chapter 14 Polylines & Mlines	As Assigned By Instructor
8 2/28	Chapter 15 Editing Polylines, Traces	As Assigned By Instructor
9 3/7	Chapter 16- Obtaining Information about the drawing	As Assigned By Instructor
10 3/14	QUIZ 2 Chapter 17 Dimensioning	As Assigned By Instructor
11 3/21	Chapter 17 Dimensioning	
12 3/28	Spring Break	Have Fun

Assignment Schedule

Week	Topic	Assignments
13 4/4	Chapter 18 Editing Dimensioning	
14 4/11	Chapter 19 Dimensioning with Tolerances	
15 4/18	Chapter 20	
16 4/25	Review & Final Drawing Problem	
17 5/2	Final	

Grading Policy:

Quiz (2 @ 150ea)	300	pts
Lab Projects	300	
Final Exam	300	
Attendance, Attitude & Participation	100	
Total	1000	

NOTE: Northwest-Shoals Community College's policy regarding academic honesty will be **strictly enforced!** As a common courtesy to the instructor, you should attend classes promptly at specified starting times. If you are going to be absent, for any reason, you should contact the instructor as soon as possible. Make-up test and assignments shall be given on an individual basis and only with a proper excuse. At no time may a student miss more than 20% of class meetings, doing so may result in a "F"

It is **"your"** responsibility to contact the instructor for make-up test and missed assignments. If you are absent for a test or assignment, because of a proper excuse, you must take the test or make up the assignment, at the next regularly scheduled class meeting. Completing laboratory assignments is an integral part of you training. **All students must satisfactorily complete at least 75% of all daily lab assignments to receive a passing grade in this course.** The exact number of assignments for the course shall depend on the abilities of the entire class as a whole, and shall be determined by the end of the semester.

AMERICANS WITH DISABILITIES ACT (ADA)

It is the policy of Northwest-Shoals Community College to comply with the Americans with Disabilities Act (ADA). Any student covered under this act needing and desiring reasonable accommodations for this class should notify the instructor

