



## **Basic Computer Aided Drafting (DFTG 1309)**

**Credit:** 3 semester credit hours (2 hours lecture, 4 hours lab)

**Prerequisite/Co-requisite:** DFTG-1305

### **Course Description**

An introduction to computer aided drafting. Emphasis is placed on setup; creating and modifying geometry; storing and retrieving predefined shapes; placing, rotating and scaling objects; adding text and dimensions; using layers; coordinate system; and plotting/printing to scale.

### **Required textbook and materials**

1. *AutoCAD and its applications – Comprehensive* by Shumaker/Madsen/Madsen, 22th Edition
  - a. ISBN number is 978-1-61960-924-1
2. Flash Drive – 1GB minimum
3. Notebook
4. Access to computer with AutoCAD

### **Course Objectives**

Upon completion of this course, the student will be able to:

1. Demonstrate the use of CAD hardware and software
2. To create
3. Display
4. Plot/print

### **Course outline**

1. Introduction
  - a. Introduction of faculty and staff
  - b. Review syllabus
  - c. Review class policies
  - d. Review lab assignment
2. Starting with AutoCAD
  - a. Handouts
  - b. Beginning overview of chapters 1 thru 14
  - c. Learning how to set up a drawing, use geometry, how to store and retrieve a drawing, place. Rotate and scale, use text, dimensions, layers, coordinates, how to plot a drawing
3. Intro to AutoCAD, getting started with AutoCAD
  - a. Open a drawing
  - b. Save a drawing
  - c. Create a drawing

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Course Syllabus

4. Sketching and drawing aides
  - a. Use of icons, pallets and quick commands
  - b. Drawing symbols
5. Creating text and basic dimensioning
  - a. Editing drawings
  - b. Using grips
6. Editing dimensions, dimension styles, model space
  - a. Editing dimensions
  - b. Plotting drawings
7. Plotting drawings, hatching and blocks
  - a. Plotting drawings in AutoCAD
  - b. Hatching drawings
  - c. Working with blocks

**Grade Scale**

90-100	A
80-89	B
70-79	C
60-69	D
0-59	F

**Course Evaluation**

Final grades will be calculated according to the following criteria:

<b>Activity</b>	<b>Percentage</b>
Homework	10%
Drawings	50%
Participation and notebook	10%
Professionalism	10%
Final	20%
<b>Total</b>	<b>100%</b>

Late penalties will be assessed on all work turned in late, 5 points per day

**Course requirements**

1. Drawing set-up
2. Create and modify geometry
3. Store and retrieve pre-defined shapes
4. Placing, rotating and scaling objects
5. Create text and dimensioning
6. Create layers and coordinate system
7. Plot drawing in AutoCAD

**Attendance Policy** (all work during absence must be made up)

1. 5 absences allowed – 4 tardies are equivalent to 1 absence

2. 2 points per absence off final grade after 5 initial absences

### **Course Policies**

1. No food, drinks or use of tobacco products in class.
2. No foul or harsh language will be tolerated.
3. Turn off all cell phones during lectures.
4. Headphones may be worn only upon instructor approval.
5. Do not bring children to class.
6. No cheating of any kind will be tolerated. Students caught cheating or helping someone to cheat can and will be removed from the class for the semester. Cheating can result in expulsion from LIT.
7. If you wish to drop a course, the student is responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course you will earn an "F" in the course.
8. Backups  
It is the student's responsibility to make back-up copies of their work. Do not rely on the server to be there 100% of the time. I cannot help you if you lose your work. Remember that in order for your work to be graded it must be turned in.
9. Internet usage
  - a. Classroom computers have access to the internet.
  - b. Student usage of the internet will be monitored.
  - c. Proper usage of the internet will be allowed to be used for classroom research or as directed.
  - d. Any unauthorized use of the internet will not be tolerated.
  - e. Improper usage of the internet, such as profanity, pornography, gambling, etc. will result in disciplinary action not limited to expulsion from LIT.

### **Disabilities Statement**

The Americans with Disabilities Act of 1992 and section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. Among other things, these statutes require that all students with documented disabilities be guaranteed a learning environment that provides for reasonable accommodations for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409) 880-1737 or visit the office in Student Services in the Cecil Beeson Building.

### **Student Code of Conduct Statement**

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the LIT Catalog and Student Handbook. The LIT Catalog and Student Handbook may be accessed at [www.lit.edu](http://www.lit.edu) or obtained in print upon request at the Student Services Office.

## **Contact information**

Instructor:

Office:

Telephone:

Email:

Office hours: See the instructor office door schedule.

**Refer to Calendar for important dates and course schedules!**

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Course Syllabus

DFTG-1309 Fall 2015

I have received a copy and have read the Course Syllabus for DFTG-1309 as provided to me by my instructor.

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Print Name

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Signature

Date