

Bergen Community College
Division of Math, Science and Technology
Department of Industrial & Design Technology

Course Syllabus
DFT 210 CAD I

Semester and year:
Course Number:
Meeting Times and Locations:

Instructor:
Office Location:
Phone:
Office Hours:
Email Address:

COURSE DESCRIPTION:

DFT210 Computer Aided Drafting I introduces the use of computer aided drafting (CAD) on a PC computer using AutoCad software. Topics include drawing setup, line drawing, editing, layer creation, display features, and dimensioning.

2 lecture, 2 labs, 3 credits

Prerequisites: None

Co-requisites: DFT-107 Drafting I

STUDENT LEARNING OBJECTIVES:

As a result of meeting the requirements in this course, students will be able to:

Student performance on these objectives will be measured by:

1.	Develop CAD drawings used in various design professions such as mechanical, architectural, interior design, etc.	CAD assignments and exam questions.
2.	Recognize correct procedures of CAD drawing set-up which incorporates standard sheet sizes and drawing scale factors.	Hard copy CAD drawings and a final project drawing.
3.	Recall the steps to apply industry standard annotation, including text, and dimensions to drawings.	CAD assignments and exam questions.
4.	Identify and implement productive and efficient drawing techniques.	CAD drawing exercises and exam performance.

COURSE CONTENT: AutoCAD and its Applications Text:

<u>Chapter</u>	<u>Topic</u>
1	Intro to CAD
2	Drawings & Templates
3	Intro to Drawing & Editing
4	Basic Commands
5	Line Standards and Layers
6	View Tools & Basic Plotting
7	Osnap & Otrack
8	Construction Tools & Multiview Drawings
9/10	Multiline Text, Text Styles and Single Line Text
11	Modifying Objects
12	Array
13	Grips, Properties & Additional Selection Techniques
14	PolyLines
15	Obtaining Drawing Information
16 thru 20	Basic/Advanced dimensioning
23	Section Views and Graphic Patterns
28/29	Layout Set Up / Plotting Layouts

TEXTBOOK: AutoCAD and its Applications Basics, Terence M. Shumaker

EVALUATION:	A.	CAD Drawings.....60%
	B.	Exam.....20%
	C.	Final Drawing Project.....10%
	D.	Class Participation..... .10%
		TOTAL.....100%

Drawings are due the class meeting after they are assigned. Drawings submitted after that date will be lowered one full letter grade per class meeting that they are late. Drawings will not be accepted after the final submission date listed in the calendar and will receive a failing grade after that last submission date.

ATTENDANCE POLICY:

Attendance will be taken twice during each class period. The first attendance for the lecture portion of the class will be at the beginning of each class. The second attendance, for the laboratory portion of the class will be taken at 11:30 a.m. for classes beginning in the morning, 5:15 p.m. for classes beginning early afternoon, and 9:45 p.m. for evening classes.

If a student is absent from the lecture portion of the class, it will be recorded as an absence for the entire class period. If a student is absent from the laboratory portion of the class, it will be recorded as an absence from that portion of the class only.

A letter grade will be deducted from the class participation portion of your final grade for each absence beyond three absences from either portion of a class period.

SPECIAL NOTES:

A final grade cannot be assigned for the course until all drawings, projects and examinations for the course have been completed.

Make-up examinations will be administered in accordance with the instructor's and division's policy.

FACULTY ABSENCE PROCEDURE: Please note well.

A daily listing will appear in the glass case located in the main hall A bldg. which will indicate all classes which are cancelled. Students can consult this case before going to class. If students find a class cancelled which has not been listed, they should report this to the divisional dean's office (A325) or to the evening/Saturday office (L113).

CALENDAR:

CLASS

MEETING

DATE

TOPIC

CHAPTER

1	___	Introduction to CAD	1/3
2	___	Drawing lines/Display options	3/6
3	___	Setting up a drawing Templates - Layouts	2/28
4	___	Editing Part I	3/11
5	___	Open Lab – Final project “Announcement”	--
6	___	Layers	5
7	___	Editing Part II	12,13,14
8	___	Text	9/10
9	___	Dimensioning Part I	16/17
10	___	Open Lab – Final project “Commitment”	--
11	___	Dimensioning Part II	16-20
12	___	Isometric & Inquiry/Settings	WWW*,15
13	___	Open Lab – Final project drawing due 10%	--
14	___	Exam	--
15	___	Open Lab - Last date to submit Assignment drawings	

WWW* is the WWW.G-W.com website. Look for the text version and supplemental materials.

All BCC students enrolled in credit courses are entitled to a WebAdvisor account. With WebAdvisor, you may register online, check your schedule, room assignments, GPA, and find out what courses you need to take. To find out more about WebAdvisor or to sign up online, visit <http://go.bergen.edu>! While there, please make sure you give us your preferred email address. You'll find directions how to do this at <http://go.bergen.edu/email>.