

SYLLABUS - CADD 5

COURSE: CADD 5 --- Introduction to Mechanical Drafting

INSTRUCTOR: Jorge Ulloa (julloa@elcamino.edu)

UNITS: 3

HOURS: 6 PER WEEK --- 2 LECTURE, 4 LAB

TEXT: "Engineering Graphics Essentials" with AutoCAD 2014
by Kirstie Plantenberg – Published by Schroff
ISBN: 978-1-58503-811-4

DESCRIPTION: This introduction to Mechanical Drafting covers the basics of creating a technical drawing using both drafting instruments and computer-aided drafting systems. The areas covered in this course include lettering, geometric construction, dimensioning, freehand sketching, orthographic projection, pictorial drawing, primary auxiliary views, sections and working drawings.

ASSIGNMENTS/GRADING:

All work in this course is from the text with the exception of the Chapter 1 Handouts (1A, 1B, 1C). The text is in workbook format so the assignments will be completed in the workbook and then the student will remove the pages from the workbook to submit for grading. For this reason, it is important to make sure you purchase a **complete** book ... many used books have pages missing.

Assignments may be corrected and resubmitted for a higher grade.

The required work and point values are listed below.

CHAPTER	ACTIVITY	POINT VALUE
1	Handouts 1A, 1B, 1C	75
2	Problems P2-1 thru P2-29 (odd only)	75
3	Problems P3-2, 3, 5, 6, 11, 17, 18	75
4	Problems P4-1 thru P4-7	75
5	Problems P5-1, 5, 6, 7, 9, 13, 23	75
6	Problems P6-1, 4, 6, 9, 12, 13	75
7	Problems P7-1, 5, 7, 9, 12, 14	75
8	Problems P8-1	25
9	Problems P9-5	25
10	Problems P10-1	25
11	Problems P11-1	50
12	Problems P12-2	50
13	Problems P13-2 (extra credit 100 pts.)	0
ASSIGNMENT TOTAL		700

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TESTING:

In addition to the coursework listed above, there will be four tests. The point values for these tests are shown below.

TESTS	POINTS
Test #1	50
Midterm Examination	100
Test #2	50
Final Examination	100

ASSIGNMENTS (700) + TESTS (300) = GRAND TOTAL	1000
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GRADING BONUS:

Your semester grade will be the highest of one of the following:

A) Total Score out 1000 points, or B) The Final Exam Score out of 100 points

GRADES:

Your course grade is based on your point total.

To receive an "A", you must earn at least: **900 Points.**

To receive a "B", you must earn at least: **800 Points.**

To receive a "C", you must earn at least : **700 Points.**

To receive a "D", you must earn at least: **600 Points.**

You will receive an "F" if you earn less than 600 points.

STUDENT LEARNING OUTCOMES:

Creating Dimensioned Orthographic Drawings:

Given sufficient product definition information of a simple machined part, the student will be able to utilize the AutoCAD software to produce a dimensioned orthographic drawing of the item.

Creating Missing Orthographic Views:

Given an incomplete engineering drawing of a simple machined part, the student will be able to utilize the AutoCAD software to produce the missing views in standard 3rd angle orthographic projection.

Working From Isometric Views:

Given an isometric drawing of a simple machined part, the student will be able to utilize the AutoCAD software to produce front, top and right side views in standard 3rd angle orthographic projection.

DISABILITY STATEMENT:

Students with disabilities who believe they may need accommodations in this class are encouraged to contact the Special Resources Center on campus as soon as possible to ensure such accommodations are implemented in a timely fashion. Please contact me privately to discuss your specific needs.