

Chemeketa Community College
4000 Lancaster Drive NE
PO Box 14007
Salem, Oregon 97309

Course Outline

Course Identification DRF130 **Credits** 3 **Date** 12/05

Course Title: AutoCAD 1

Total Instructional Hours, for Course, per Term:

<u>22</u>	Lecture Hours	=	<u>2</u>	Credit(s)
<u>33</u>	Laboratory Hours	=	<u>1</u>	Credit(s)

Prerequisite Course(s):

None

Required Text(s):

Sumaker, and Madsen, *AutoCAD And Its Applications-BASICS or Comprehensive*, Latest Edition, Goodheart-Wilcox Publishers

Course Description:

Incorporates hands-on experience with AutoCAD, a PC-based computer-aided drafting program. Introduces standard graphics commands for two-dimensional drawings.

Performance Based Learner Outcomes:

Upon successful completion of the course, students should be able to:

1. Use draw commands to accurately generate prescribed shapes.
2. Utilize edit functions to modify and enhance drawings.
3. Create blocks and insert them in drawings.
4. Apply text and dimensions to drawings.
5. Utilize object snap modes with the graphics digitizer (mouse).
6. Use polar and rectangular coordinate systems to create drawings.
7. Use file commands to save and retrieve drawings.
8. Create layers to organize drawing information.
9. Differentiate between model space and layout space objects.
10. Use zoom and pan commands to navigate within drawing.

Course Content Outline:

- I. Introduction
- II. Draw Commands
- III. Accurate Shapes, Coordinate Geometry
- IV. Orthographic Projection
- V. Modify Commands
- VI. Text
- VII. Unit Systems
- VII. Blocks
- IX. Dimensioning