

Chemeketa Community College

4000 Lancaster Drive NE

PO Box 14007

Salem, Oregon 97309

Course Outline

Course Identification DRF132 **Credits** 3 **Date** 12/05

Course Title: AutoCAD 3

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):

DRF131 AutoCAD 2 or consent of instructor

Required Text(s):

Shumaker, Terence, and Madsen, David, *AutoCAD and Its Applications Advanced or Comprehensive*, Latest Edition, Goodheart-Wilcox Publishers, ISBN 1-56637-689-0

Course Description:

Incorporates hands-on experience with AutoCAD. Covers advanced graphics commands for two-dimensional drawings. Introduces elementary customization techniques. Covers three-dimensional models created from surfaces and solids.

Performance Based Learner Outcomes:

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

1. Produce three-dimensional surfaced models.
2. Create and edit three-dimensional solid models.
3. Project standard orthographic and section views from a three-dimensional model.
4. Use basic unit blocks to quickly create complex drawings.
5. Create two-dimensional detail drawings based on rough sketches.
6. Add revision symbols to drawings.
7. Create customized toolbars, tool palettes, line types and hatching.

Course Content Outline:

- I. Set-Up for Three-Dimensional Model Including Isometric Viewpoint and UCS Definition
- II. Introduction to Three-Dimensional Surfaces
- III. Surface Modeling Techniques
- IV. Solid Model Primitives
- V. Projection of Orthographic and Section Views
- VI. Unit Blocks
- VII. Create Finished Details from Rough Sketches
- VIII. Customize AutoCAD