

Chemeketa Community College
4000 Lancaster Drive NE
PO Box 14007
Salem, Oregon 97309-7070

Course Outline

Course Identification DRF101 **Credits** 2 **Date** 12/05

Course Title: Basic CAD for Electronics

Total Instructional Hours, for Course, per Term:

<u>11</u> Lecture Hours	=	<u>1</u> Credit(s)
<u>33</u> Laboratory Hours	=	<u>1</u> Credit(s)

Prerequisite Course(s):

None

Required Text(s):

Sumaker, Terence, and Madisen, David, *AutoCAD and its Applications - Basic*

Course Description:

Covers the use of AutoCAD, schematic drawings, chassis design, block diagrams, and PC board layout drawings in addition to basic CAD operations in the field of electronic drafting.

Performance Based Learner Outcomes:

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

1. Utilize the computer in electronic drafting applications.
2. Generate drawings utilizing AutoCAD.
3. Apply standard electrical and electronic symbols.
4. Develop custom symbols.

Course Content Outline:

- I. Introduction to CAD
- II. Drawing Accurate Shapes
- III. Orthographic Projections
- IV. Block Diagrams
- V. Panel Layout
- VI. Schematic Diagrams
- VII. Electronic Schematic
- VIII. Logic
- IX. Highway Diagram
- X. PC Board Layout