

TIDEWATER COMMUNITY COLLEGE

Official Course Outline

Course Prefix/Number/Title: DRF / 201 / Computer Aided Drafting and Design I

Credit Hours: 4 **Lecture Hours:** 3 **Lab Hours:** 2 **Total Contact Hours:** 5

Pre-requisites: DRF 151 **Co-requisites:** None

Course Description: Teaches computer-aided drafting concepts and equipment design to develop a general understanding of components of a typical CAD system and its operation.

Course Objectives: Upon successful completion of this course, the student will be able to:

1. Use the computer and software to set up a new drawing.
2. Demonstrate the effective use of the computer operating system.
3. Show an understanding of the software interface.
4. Demonstrate an acceptable skill level in working with software menu hierarchy.
5. Have an understanding of producing a CAD drawing and plotting the hard copy.

Course Content:

- Introduction to the software's user interface
- Procedure in opening and saving a new drawing
- AutoCAD's menu hierarchy
- The user coordinate system
- View commands
- Editing drawings (Modify Commands)
- Working with drawing aids
- Basic Dimensioning, Dimension styles, and Dimension System Variables
- Concepts of Model space, Paper Space, and View ports
- Creating text
- Working with Blocks, Wblocks, and Xrefs.
- Plotting drawings
- Isometric drawings

Textbook: Tickoo, Sham (2007). AutoCad 2007: A Problem-Solving Approach. Thomson Delmar Learning. (ISBN: 1-4180-4900-X)

Materials: Notebook
2 Floppy Disks or
Flash Drive (minimum capacity 128 MB)