J. Sargeant Reynolds Community College
Course Content Summary

Course Prefix and Number: DRF 232

Course Title: Computer-Aided Drafting II

Course Description: Teaches advanced operations in computer-aided drafting. Prerequisite: DRF 231. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

General Course Purpose: The course addresses intermediate to advanced level concepts in computer-aided-design technology including an introduction to 3D graphics.

Course Prerequisites and Co-requisites:
Prerequisite: DRF 231

Course Objectives:
Upon completing the course, the student will be able to
a. Alter the basic dimension system of the CAD program to achieve special characteristics when dimensioning;
b. Create and export non-graphic data (attributes) from a CAD drawing to outside applications;
c. Create 3-dimensional representations of design solutions; and
d. Execute light and shadow renderings to achieve “realism” in 3D models.

Major Topics to Be Included:
a. Customization of the dimension system in CAD
b. Creation and use of attributes in CAD
c. Introduction to 3D drawing in CAD

Effective Date of Course Content Summary: August, 2008