

**J. Sargeant Reynolds Community College  
Course Content Summary**

**Course Prefix and Number:** DRF 232

**Credits:** 3

**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