

**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. 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/Co requisites** (Entry-level competencies **required** for enrollment)

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
- 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