

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

**Course Prefix and Number:** DRF 231

**Credits:** 3

**Course Title:** Computer-Aided Drafting I

**Course Description:** Teaches computer-aided drafting concepts and equipment. Develops a general understanding of components and operating a typical CAD system. Prerequisite: DRF 111 is recommended for individuals with no experience in technical drawing prior to enrolling in DRF 231. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

**General Course Purpose:** Introduction to the fundamentals of 2D computer-assisted-design

**Course Prerequisites and Co-requisites:**

**Prerequisite:** DRF 111 is recommended for students who have no previous technical drawing experience

**Course Objectives:**

Upon completing the course, the student will be able to

- a. Demonstrate competency in the use of AutoCAD;
- b. Identify and understand the function of each component in a typical CAD workstation; and
- c. Identify related terminology.

**Major Topics to Be Included:**

- a. Computer concepts
- b. AutoCAD workstation and basics
- c. Draw and edit commands
- d. OSNAP review
- e. Layers
- f. Display options
- g. Plotting

**Effective Date of Course Content Summary:** August, 2008