

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

**Course Prefix and Number:** DRF 111

**Credits:** 3

**Course Title:** Technical Drafting I

**Course Description:** Introduces technical drafting from the fundamentals through advanced drafting practices. Teaches lettering, metric construction, technical sketching, orthographic projection, sections, intersections, development, fasteners, theory and applications of dimensioning and tolerances. Includes pictorial drawing and preparation of working and detailed drawings. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

**General Course Purpose:** Students will learn how to visualize and communicate three dimensional objects using a two dimensional medium. Students will develop a skill for using drawing instruments that include line weights, angular lines, French curves, circles (both template and compass), architectural scales and others. These skills will establish a basis upon which to learn computer-aided drafting.

**Course Prerequisites and Co-requisites:**

None

**Course Objectives:**

Upon completing the course, the student will be able to

- a. Draw each of the object types listed below;
- b. Use drawing instruments with confidence in communicating objects and ideas;
- c. Understand the importance of clarity in drawing presentation; and
- d. Have developed these skills to the point of being able to use them in employment.

**Major Topics to Be Included:**

- a. Drawing instruments and their use
- b. Multi-view drawings
- c. Isometric views
- d. Dimensioning
- e. Plain orthographic views
- f. Auxiliary views
- g. Full section drawing
- h. Architectural elements
- i. Architectural floor plans

**Effective Date of Course Content Summary:** November 4, 2008