

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

Course Prefix and Number: ARC 211

Credits: 3

Course Title: Computer-Aided Drafting Applications

Course Description

Utilizes computer's hardware and software to create orthographic and pictorial drawings. Requires creation of working drawings by adding the necessary sections, dimensions, and notes to the computer generated views. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

General Course Purpose

To develop the student's knowledge of computer-assisted-design technology beyond the introductory level as applied to architectural specific projects and applications.

Course Prerequisites/Corequisites (Entry-level competencies **required** for enrollment)

Prerequisite: DRF 231 or equivalent

Course Objectives

Upon completing the course, the student will be able to:

- a. Develop competency in the use of computer-assisted-design technology through hands-on use.
- b. Better integrate the use of computer-aided design into the architectural design process via the use of a third party application specifically designed for this type of application.
- c. Reveal the potential productivity of AutoCAD when customized for use in a particular field.
- d. Improve the accuracy and speed with which a set of working drawings can be produced by a designer/draftsman using state-of-the-art computer applications.

Major Topics to be Included

- a. Review of AutoCAD fundamentals
- b. software configuration for architectural design and document creation
- c. Menu structure
- d. Wall creation
- e. Window and door insertion
- f. Display options
- g. 3D walk throughs, i.e., visualization

Effective Date of Course Content Summary: August, 2008