



## DRFT 1040

**Division:** Career and Technical Education

**Department:** Drafting Technology

**Course:** DRFT 1040

**Title:** Computer-Aided Drafting-- Using AutoCAD

**Catalog Description:**

This course provides an introduction to drafting techniques using AutoCAD. Students will become familiar with basic concepts through completion of 2-dimensional (2D) commands. The course includes practical experience in drawing a student's choice of 2D application(s).

**General Education Requirements:** N/A

**Semesters Offered:** Fall, Spring

**Credit/Time Requirement:** Credit: 2; Lecture: 2; Lab: 0

**Clock/Hour Requirements:** 0

**Offered for Non-Credit:** No

**Prerequisites:** N/A

**Corequisites:** N/A

**Justification:**

This course is designed for any student with an interest in learning how to use the computer as an automated design and drafting tool. The course is not intended for one specific discipline, but is meant to serve disciplines that use methods of drafting, design, or engineering. Common examples include architecture, building construction, interior design, engineering (all types), electronics, mechanical part design, robotics, facilities planning, and mapping. Other areas include theater set/lighting design, apparel design, cartoon design, graphic arts, and museum display design.

**Student Learning Outcomes:**

Upon successful completion of this course, students will:

- understand what the system components are that make up a CAD workstation and how to use them
- understand the basic terminology used in computer aided drafting
- learn to use the menu options and commands and how they are used to make or edit a drawing by completing basic architectural and other 2D drawings
- design and complete a CAD final project such as a Floor Plan for a home or similar drawing.

**Content:**

Course objectives will be accomplished by providing students with learning experiences in the following subject areas:

- Introduction to Computer-aided Drafting: Benefits, Applications and Components

- Basic Terms and Concepts: Getting Started
- Adding Entities to Your Drawing: Modifying Objects/Groups and Zooming
- Files Management and Plotting your Work.

**General Education Outcomes:**

**Applied Education Outcomes:**

- 1) Students will acquire entry-level skills specific to and appropriate for employment in their chosen field of study. Students will understand basic commands and be able to draw basic 2-dimensional drawings.

**Key Performance Indicators:**

Outcome assessment will be an evaluation of:

- performance on drawing projects (50%)
- faculty developed tests from the objectives of the course (50%).

Percentages are approximate.

**Representative Text and/or Supplies:**

- Wohlers, Terry., *Applying AutoCAD*, current edition, New York: Glenco-Mcgraw Hill.

**Optimum Class Size:** 12

**Maximum Class Size:** 16

**Signatures:**

I hereby submit this course syllabus:

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Craig Conder, ,

I hereby find this course consistent with the goals and resources of the Drafting Technology Department:

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Craig Conder, , Chair

I hereby find this course consistent with the goals and resources of the Career and Technical Education Division:

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Michael P. Medley, MBA, Assistant Professor, Dean

I have discussed the need for library resources related to this class with the person submitting the syllabus:

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Lynn Anderson, MLIS, Technical Services Librarian (Main Campus)

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Michelle Olsen, MLS, Campus Librarian (Richfield Campus)