

# COMPUTER-AIDED DRAFTING TECHNOLOGY (CDT)

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For additional information, contact the Industrial Technology Department at 503-594-3318.

## **CDT-102** Sketching & Problem Solving 3 credits, Fall

Freehand sketching encountered in drafting engineering projects. Selecting views and implementing drafting standards. Dimensioning, lettering, sections and auxiliary views are covered. Problem solving in individual and group settings.

## **CDT-103** Computer-Aided Drafting I 3 credits, Winter

Introduction to drafting applications using AutoCAD. Instruction includes problem solving, drawing layout, orthographic multi-view projection, line types, geometric construction and current drafting techniques. Use industry standards for CAD drawing, editing, file management, dimensions and notes.

Recommended: CDT-102

## **CDT-108A** Introduction to SolidWorks 3 credits, Fall/Spring

This course is an introduction to the SolidWorks parametric mechanical software. Students will design 3D solid parts, sheet metal parts and assemblies, and develop 2D documentation from them.

## **CDT-223** Inventor Fundamentals 3 credits, Winter

Introduces parametric and adaptive modeling techniques using Autodesk Inventor. This course will guide students through design environment setup, creation of simple and complex part geometry, assembly building, animation, and detailed 2D drawing output.

Recommended: Basic working knowledge of Windows operating system and Microsoft Excel

## **CDT-224** Professional Web Design 1-3 credits, Spring

Introduction to the design, creation and management of professional web pages. Basic and intermediate HTML document creation, introduction to JAVASCRIPT, use and manipulation of graphic image files, animating web page graphics, HTML forms. Variable Credit: 1-3 credits.

## **CDT-225** Advanced SolidWorks 3 credits, Winter

Advanced features of SolidWorks will be discussed and problems will be worked that exemplify them. Subjects include equations, configurations, design tables and dynamics. Required: Student Petition.

Prerequisites: CDT-108A