

# COMPUTER AIDED DRAFTING (CADT)

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## Courses

### CADT 106 Computer Aided Design 3 Credits

Basic principles of computer-aided design through the development of practical drawing problems using a computer.

**Terms Typically Offered:** Fall, Spring.

**Fees:** Yes.

### CADT 108 CAD - Mechanical 3 Credits

Basic principles of computer-aided drafting and 3D modeling through the development of practical drawing problems using CAD software.

**Terms Typically Offered:** Fall.

**Fees:** Yes.

### CADT 109 CAD-Mechanical Engineering 3 Credits

Advanced work in computer-aided drafting principles, including 2-D and 3-D drawing, solid-based modeling, and parametric modeling.

**Terms Typically Offered:** Spring.

**Fees:** Yes.

### CADT 130 CAD-Civil 3 Credits

Basic principles of civil drafting, including organizing data, working with points, surfaces, parcel contours, grading, and pipe networks. Students will be introduced to graphical interface systems (GIS).

**Prerequisites:** CADT 106 (may be taken concurrently).

**Terms Typically Offered:** Fall.

**Fees:** Yes.

### CADT 135 CAD Civil II 3 Credits

Advanced work in configuring software and customizing sheet properties. Explore alternative methods to create surfaces and parcels and advanced corridor and pipe network design and further instruction using skills from CADT 130.

**Prerequisites:** CADT 130.

**Terms Typically Offered:** Spring.

**Fees:** Yes.

### CADT 140 Architectural Theory and Structural Materials 3 Credits

Elementary design strategies, theories, and methods for architectural documents. Application of architectural components and materials to develop buildable assemblies. Emphasis is placed on building codes and standards.

**Corequisites:** CADT 142.

**Terms Typically Offered:** Spring.

**Fees:** Yes.

### CADT 142 CAD - Residential Architecture 3 Credits

Basic principles in residential architectural CAD through a realistic residential project, from concept through construction documents.

**Corequisites:** CADT 140.

**Terms Typically Offered:** Spring.

**Fees:** Yes.

### CADT 143 CAD-Commercial Architecture 3 Credits

Creation of commercial project plans that begin with schematic design and continue through to construction documents. Construction documents will include site plan, foundation floor slab plan, roof framing plan, building section, and a variety of construction details.

**Terms Typically Offered:** Fall.

**Fees:** Yes.

### CADT 195 Independent Study 1-3 Credits

Course may be taken multiple times up to maximum of 6 credit hours.

### CADT 196 Topics 1-3 Credits

Course may be taken multiple times up to maximum of 15 credit hours.

### CADT 210 Project 3 Credits

Exploration of computer-aided drawing, demonstrating learned concepts and principles of 3D parametric modeling to residential and commercial applications.

**Prerequisites:** CADT 106 and CADT 142 (both may be taken concurrently).

**Terms Typically Offered:** Spring.

**Fees:** Yes.

### CADT 296 Topics 1-3 Credits

Course may be taken multiple times up to maximum of 15 credit hours.