

# COMPUTER AIDED DRAFTING/ DESIGN (CAD)

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## **CAD 0500 CAD 3D Arch Parametric (0 Credits)**

This course introduces students to a 3D parametric computer aided design platform where students gain operational and productivity knowledge using industry-common parametric software.

## **CAD 0501 Introduction to AutoCAD (0 Credits)**

This is an introductory course for people that have no experience in Computer Aided Drawing using AutoCAD software, and is of particular interest to Architects, Engineers, Contractors, Cabinet Makers, Landscape and Interior Designers. Students must be knowledgeable in basic computer use. Topics will include basic AutoCAD drawing commands, text creation, scale factors of drawing and dimensioning techniques, layers, line weight usage, fundamental drafting technique, drawing management, hatching, block usage, and creating symbol library for multiple uses. Students will be able to draw all aspects of a small Cape Cod house design from conception to all phases of a working drawing set for construction, including floor plans, elevations, sections, kitchen cabinets, and details. And finally printing the project out on their own designed title block with proper drawing layouts. This course will give the student the basic skills and ability to draw anything they want. Each student has his own PC workstation for the instruction. Please bring a flash drive to class. A PC-based student version of the software is provided for homework. Class will be instructed on a PC platform, and MAC usage is possible but not instructed due to the different interface. We will be using the latest version of AutoCAD.

*Additional fees may apply*

## **CAD 0502 Architectural CAD (0 Credits)**

This course is an introduction to the theory and practice of architectural planning, design, and drawing production. Topics include: drawing layouts, floor plan development, elevation views, renderings, material specifications, and building code requirements.

## **CAD 0505 CAD Mechanical AutoCAD (0 Credits)**

Gain proficiency in Computer-Aided Design (CAD) using AutoCAD for mechanical applications.

## **CAD 0506 Parametric Design (0 Credits)**

Learn the principles of parametric design for creating flexible and adaptable models.

## **CAD 0507 CAD 3D Architectural (0 Credits)**

Applies engineering and technological principles to the design of residential and light commercial structures. Students will create architectural drawings and three-dimensional models using AutoCAD software.

*Additional fees may apply*