

**Common Course Outline**  
**CADD 101**  
**Introduction to CADD**  
**3 Credits**

**The Community College of Baltimore County**

**Description**

**CADD 101 – 3 credits – Introduction to Computer Aided Design and Drafting** covers basic two-dimensional drafting principles and practices utilizing Computer Aided Drafting/Design (CADD) techniques. Topics include CADD software structure and features, creation and editing of CADD drawings using standard techniques, file maintenance, output and plotting. Students will use AutoCAD software.

**3 Credits:** 2 lecture hours and 3 laboratory hours

**Prerequisites:** none

**Overall Course Objectives**

Upon completion of this course students will be able to:

1. categorize and demonstrate standard drafting principles in a CADD environment;
2. apply working knowledge and skills to effectively and efficiently create drawings using AutoCAD;
3. identify and explain the function and purpose of CADD system components;
4. construct basic dimensioning procedures;
5. plot CADD drawings at designated scales;
6. employ CADD as a precision drafting tool;
7. identify industry CADD practices;
8. classify the design process and responsibilities of design team members;
9. apply company standards to a CAD drawing; and
10. evaluate conformance of a company standard to a CAD drawing.

**Major Topics**

- I. Introduction to drafting and CADD
- II. Basic draw commands such as: Line, Circle, Arc
- III. Menus
- IV. Coordinates
- V. Grid
- VI. Snap
- VII. Basic editing commands: Copy, Move, Erase, Trim
- VIII. Drawing organization: Layers, Properties
- IX. File maintenance , storage and security

- X. Text and annotation
- XI. Intermediate editing: Array, Mirror, Stretch, Fillet, Chamfer, Plotting
- XII. Dimensioning
- XIII. Standards

### **Course Requirements**

Grading procedures will be determined by the individual faculty member but will include the following:

Graded exercises – biweekly graded exercises

Periodic tests – minimum of three written tests, including the midterm

Comprehensive final examination

Class participation – attendance, participation in group activities and class discussions

### **Other Course Information**

Students are required to utilize appropriate academic recourses. Individual faculty members may include additional course objectives, major topics and other course requirements to the minimum expectations stated in the Common Course Outline.

This course is a required course in the Computer-Aided Design for Architecture and Engineering Degree Program. It is taught in a computerized environment using AutoCAD software on personal computers.