

**Course Outline**  
**CADD 102**  
**Intermediate AutoCAD®**  
**3 Credits**

**The Community College of Baltimore County**

**Description**

**CADD 102 - Intermediate AutoCAD®** includes advanced editing techniques, manipulations of dimensioning variables, creating drawing templates, and drawing strategies. The course incorporates in-depth use of AutoCAD® for industry applications including three dimensional (3D) modeling.

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

**Prerequisite:** CADD 101 or permission of program coordinator.

**Overall Course Objectives**

Upon completion of this course students will be able to:

1. recognize and apply standard drafting principles in a CADD environment;
2. develop working drawings using AutoCAD®;
3. use the geometry calculator to make mathematical calculations;
4. make point selections using point filters;
5. plot CADD drawings at designated scales;
6. use selection set filters to create custom selection sets, according to specific object types and properties;
7. explain plot styles, plot style tables and plot style modes;
8. create and insert drawings and blocks using the AutoCAD® DesignCenter;
9. define the function of external references; and
10. develop and use hyperlinks.

**Major Topics**

- I. Review of basic CAD commands
- II. Drawing strategies
- III. Layers
- IV. Object properties
- V. Geometry calculator
- VI. File maintenance and storage
- VII. Text and text styles
- VIII. Three dimensional concepts
- IX. Plotting
- X. Selection sets
- XI. Blocks and AutoCAD® DesignCenter
- XII. External references
- XIII. CAD internet applications

**Course Requirements**

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

### **Grading/Exams:**

- Portfolio including a minimum of three graded exercises
- A minimum of three tests
- One comprehensive midterm and final examination (Two examinations)

Written Assignments: Students are required to use appropriate academic resources.

### **Other Course Information**

This course is a course in the CADD curricula that may be used instead of CADD 101. This course is taught in a computerized environment.

Date Revised: 02/23/2016