

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