

Course Outline
CADD 111
Computer-Aided Design Applications
3 semester hours

The Community College of Baltimore County

Description

Computer-Aided Design Applications

Exposes students to applications in CAD and provides opportunities to broaden knowledge of graphics manipulation to create fully developed 3-D designs and output using MicroStation software.

3 credits; 2 lecture hours and 3 laboratory hours per week. Prerequisites: CADD 101 or permission of program coordinator.

Overall Course Objectives

Upon completion of this course the student will be able to:

1. Create a new design file using an alternate CAD package.
2. Place elements using the systems coordinate system and working units.
3. Manipulate and modify elements.
4. Control element attributes such as color, line type, and weight.
5. Use locks to facilitate the drawing process.
6. Set view attributes to achieve desired results.
7. Create and manipulate text.
8. Create and use cells and cell libraries.
9. Attach and manipulate reference files.
10. Plot drawing at specific scales.

Major Topics

1. Introduction to the User Interface
2. Basic element Creation Commands
3. Element Modification Commands and Techniques
4. Element Attributes
5. Levels
6. Locks
7. View Attributes
8. Text
9. Cells, Groups, and Regions
10. Reference Files
11. Dimensioning
12. Plotting

Course Requirements

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

1. Graded exercises
2. Periodic tests
3. Comprehensive final examination
4. Portfolio

Other Course Information

This course is a core course in the CADD curricula.
This course is taught in a computerized environment.
There are 2 lecture and 3 laboratory hours per week.