Common Course Outline
CADD 111
Computer-Aided Design Applications
3 Credits

The Community College of Baltimore County

Description

CADD 111 - 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 2 lab hours

Prerequisites: CADD 101 or permission of program coordinator.

Overall Course Objectives

Upon completion of this course students 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; and
10. plot drawing at specific scales.

Major Topics

I.	Introduction to the User Interface
II.	Basic Element Creation Commands
III.	Element Modification Commands and Techniques
IV.	Element Attributes
V.	Levels
VI.	Locks
VII.	View Attributes
VIII.	Text
IX.	Cells, Groups, and Regions
X.	Reference Files

XI. Dimensioning
XII. Plotting

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.
- Two comprehensive examinations--midterm and final examination.

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

Other Course Information

This course is a core course in the CADD curricula. This course is taught in a computerized environment.

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