Course Outline
CADD 101
Introduction to CADD
3 Credits

The Community College of Baltimore County

Description

CADD 101 – Introduction to CADD introduces students to basic two dimensional drafting principles and practices utilizing Computer Aided Drafting/Design (CADD) techniques. It focuses on CADD software structure and features, creation of CADD drawings using standard techniques, file maintenance, and output and plotting. Students use AutoCAD and Windows software.

3 Credits: 2 lecture and 2 laboratory hours

Prerequisites: None

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. 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. apply basic dimensioning procedures;
5. plot CADD drawings at designated scales;
6. utilize CADD as a precision drafting tool;
7. explain industry CADD practices and standards;
8. describe the design process and responsibilities of design team members;
9. proceed to advanced CADD course work; and
10. evaluate career opportunities in CADD.

Major Topics

I. Introduction to drafting and CADD
II. Basic draw commands such as: LINE, CIRCLE, ARC
III. Interface components
IV. Cartesian coordinates, grid, snap
V. Basic editing commands such as: COPY, MOVE, ERASE, TRIM
VI. Drawing organization: LAYERS, viewports, borders
VII. File maintenance and storage

VIII. Industry standards
IX. Text
X. Intermediate editing: ARRAY, MIRROR, STRETCH, FILLET, CHAMFER
XI. Plotting
XII. Dimensioning

Course Requirements

Grading procedures will be determined by the individual faculty member but 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)

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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