# Course Outline CADD 201

# Computer-Aided Design Specialization 3 Credits

# The Community College of Baltimore County

#### **Description**

**CADD 201 -- Computer-Aided Design Specialization i**ncreases knowledge and facility using MicroStation software to reinforce the concepts of reference fills, cells and level symbology; explores customizing techniques used to increase productivity and the software's modeling and rendering tools.

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

**Prerequisite**: CADD 111.

## **Overall Course Objectives**

Upon completion of this course students will be able to:

- 1. create a three dimensional model;
- 2. develop working drawings from a 3-D model;
- 3. create complex surface models;
- 4. use sheet files to facilitate the creation of working drawings;
- 5. explain the function and advantage of dimension driven design;
- 6. create auxiliary coordinate systems;
- 7. use complex curves to create surface geometry;
- 8. create solid models using Boolean operations;
- 9. animate models; and
- 10. prepare drawings for posting on the WEB.

#### **Major Topics**

- I. Review of AccuDraw
- II. Sheet Files
- III. Complex and conic curves.
- IV. Dimension Driven Design
- V. Auxiliary Coordinate Systems
- VI. Dimensioning and Detailing
- VII. Creating Surface Models
- VIII. Solid Modeling
  - IX. Animation
  - X. WEB Publishing

#### **Course Requirements**

Grading/Exams: 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)

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. Offered spring semester only.

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