# Course Outline
## CADD 201
## Computer-Aided Design Specialization
### 3 semester hours

# The Community College of Baltimore County

**Description**

Computer-Aided Design Specialization
Increases 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 hours and 3 laboratory hours per week. Prerequisites: CADD 111. Offered spring semester only.

**Overall Course Objectives**

Upon completion of this course the student 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.
10. Prepare drawings for posting on the WEB.

**Major Topics**

1. Review of AccuDraw
2. Sheet Files
3. Complex and conic curves.
4. Dimension Driven Design
5. Auxiliary Coordinate Systems
6. Dimensioning and Detailing
7. Creating Surface Models
8. Solid Modeling
9. Animation
10. WEB Publishing

**Course Requirements**

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

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

**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.