

Course Outline
CADD 243
Intermediate Solid Modeling
3 semester hours

The Community College of Baltimore County

Description

Intermediate Solid Modeling

Continues practices and techniques developed in CADD 242, Solid Modeling; covers advanced modeling techniques, parametric dimensioning, complex geometry and assemblies.

Prerequisites: CADD 242, Solid Modeling, or permission of Program Coordinator

Overall Course Objectives

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

1. Apply advanced parametric dimensioning techniques to drawn parts.
2. Develop families of parts.
3. Generate complex features.
4. Create irregular and transitional surfaces by lofting and other advanced techniques.
5. Develop surface models
6. Apply assembly techniques to multiple part designs.
7. Produce two dimensional drawings from solid models.
8. Manage solid model files.
9. Use and apply solid modeling concepts using common software

Major Topics

1. Review of solid modeling principles.
2. Discussion of changes in solid modeling software.
3. Development of complex individual parts.
4. Creation of assemblies.
5. Tolerancing and interference
6. Techniques for managing solid model files

Course Requirements

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

1. Graded exercises
2. Comprehensive final project
3. Class participation

Other Course Information

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

Banner Short Course Description

Continues the development of practices and techniques covered in CADD 242, Solid Modeling. Topics include: advanced modeling, parametric dimensioning, complex geometry and assemblies. Prerequisites: CADD 242, Solid Modeling, or permission of Program Coordinator

Full Catalog Description

Continues the development of practices and techniques covered in CADD 242, Solid Modeling. Topics include: advanced modeling, parametric dimensioning, complex geometry and assemblies. Prerequisites: CADD 242, Solid Modeling, or permission of Program Coordinator