

Course Outline
CADD 152
Intermediate Technical Presentation
3 Credits

The Community College of Baltimore County

Description

CADD 152 -- Intermediate Technical Presentation teaches the production of engineering and architectural renderings and animated presentations for business, educational, and sales purposes; includes creating the illusion of detail, animating and rendering AutoCAD© files, scanning images, using clip models, bitmaps, and animations, and applying sound to animations.

3 Credits: 2 lecture and 2 laboratory hours

Prerequisite: CADD 151

Overall Course Objectives

Upon completion of this course students will be able to:

1. edit lofted objects and deformation curves;
2. create compound objects and particle systems;
3. describe various selection controls;
4. apply volumetric lights and fog;
5. apply perspective matching;
6. use motion and animation controls to create animation in Max;
7. use the interactive renderer to preview animation;
8. describe the difference between forward and inverse kinematics;
9. create rendered animations;
10. describe the video post; and
11. add scene and image events;

Major Topics

- I. Editing Shapes
- II. Editing Meshes, Patches, and Splines
- III. Editing Boolean Objects
- IV. Lights and Cameras
- V. The Material Editor Interface
- VI. Material Mapping
- VII. Material Templates
- VIII. Rendering

- IX. Environmental Effects
- X. The Interactive Renderer
- XI. Motion Controllers
- XII. Linking Objects
- XIII. Network Rendering
- XIV. Video Post
- XV. Space Warps
- XVI. Object Morphing

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)

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.