

Course Outline
CADD 241
CAD Engineering Drawing II
3 semester hours

The Community College of Baltimore County

Description

CAD Engineering Drawing II

Explores advanced vocabulary, construction techniques, standards, conventions and visualization techniques needed to create and read engineering drawings; includes theories of various types of pictorial, auxiliary and developmental drawings.

3 credits; 2 lecture hours and 3 laboratory hours per week. Prerequisites: CADD 101 and CADD 103.

Overall Course Objectives

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

1. Create the six standard views of an object.
2. Transfer height, width or depth dimensions between views.
3. Draw a projected normal, inclined and oblique surfaces in all views.
4. Define and label parts of a screw thread.
5. Identify various fasteners and describe their use.
6. Create an auxiliary view from any orthographic projection.
7. Revolve an object to show the true length and true size of lines and planes.
8. Dimension and detail an architectural drawing.
9. Create civil site drawings
10. Discuss how drawings may be handled in a “paperless” office.

Major Topics

1. Orthographic Projection
2. Dimensioning
3. Sectional Views
4. Manufacturing Processes
5. Fasteners, Threads and Bolts
6. Architectural detailing
7. Auxiliary Views
8. Revolutions
9. Intersections and Developments
10. Civil Site Drawings
11. Principles of Land Development

12. Reproduction and Drawing Control
13. Assembly and Detail Drawing
14. Tolerancing

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

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.