

Common Course Outline
CONT 101
Construction Blueprint Reading
3 Semester Hours

The Community College of Baltimore County

Description

Construction Blueprint Reading

Introduces orthographic projection, terminology, dimensioning, symbols, working to scales, schedules, material lists and details, pictorial representation, and basic parallel projection drafting techniques; discusses many diverse areas requiring the reading and/or interpretation of blueprints as related to the construction industry.

3 credits: 3 lecture hours per week.

Overall Course Objectives

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

Explain the critical nature of the use of blueprints in commercial and residential construction.

Recognize the separate disciplines that are integrated to produce a set of buildable plans.

Retrieve information, interpreting that information into a building construction.

Scale off dimensions and read basic architectural symbols with regard to plumbing, HVAC, structural and electrical building systems.

Read off basic units of measurement of materials and dimensions, readily converting and performing basic math functions needed for construction.

Identify the materials needed to construct a building from the plans.

Visualize and understand the basic architectural views, (plan, elevation, and section).

Determine the differences between rendering and orthographic drawings.

Major Topics

Construction drawings

Reading measuring tools

Mathematics review
Lines and symbols
Freehand technical sketching
Pictorial drawings
Orthographic drawings
Dimensions
Construction materials
Specifications
Plot plans
Foundation prints
Commercial framing prints
Residential framing prints
Plumbing prints
HVAC prints
Electrical Prints
Masonry prints

Course Requirements

Grading/exams: Grading procedures will be determined by the individual faculty member and will include at least 4 out of the 7 categories that follow:

Homework
Projects
Mid term
Term paper/oral report
Classwork
Team projects
Quizzes
Final exam
There will be a minimum of 8 graded assignments

Writing: The individual faculty member will determine specific writing assignments.

Other Course Information

This course is a X core course and a _____ elective.
This course is taught in a computerized environment.
This course is the first course in a required two-course sequence.

Individual faculty members may include additional course objectives, major topics, and other course requirements to the minimum expectations stated in the Common Course Outline.

Date Revised: 08/29/00

