

Virginia Western Community College
BLD 111
Blueprint Reading and Building Code

Prerequisites

None

Course Description

Introduces reading and interpreting various kinds of blueprints and working drawings with reference to local, state and national building codes.

Semester Credits: 3 Lecture Hours: 2 Lab/Clinical/Internship Hours: 2

Required Materials**Textbook:**

Print reading for Construction. ISBN#: 9781605258027.

Other Required Materials:**Course Outcomes**

At the completion of this course, the student should be able to:

- Understand the purpose and use of prints, specifications and building codes.
- Successfully read a set of blueprints with specifications and determine how the architect or engineer wanted the building to be constructed.
- Successfully make quantity take offs and feel comfortable finding items and answering questions regarding the prints, specifications and codes.
- Check the prints with the codes for errors or discrepancies.
- Determine what materials are to be used and how and where these materials are to be used in the construction.
- Develop vocabulary and knowledge necessary to read and interpret blueprints, specifications and the building codes.
- Understand the relationship of the drawn/written descriptions to the actual construction.
- Effectively communicate with others in the construction industry.

Topical Description

WK	Topic – Your Class notes will be important to tests	Text Reading	Test Schedule
1	Review Information about the class		
2	Video “Skyscraper”- Financing, Designing, and Constructing a Skyscraper in New York City. <i>(Quiz 2 will have video questions)</i>	Video	1000 word paper
3	. Introduction, A/E and Contractor’s organization. Purpose of Drawings, Specifications and Building Codes. Blueprinting History	1	
4	Scale, Format of Prints, Sheet Order, Sheet Composition, View Conventions, Dimensioning, Graphic Conventions and Symbols	3, 4	Paper Due
5	Residential and Commercial Site Work, Zoning, Easements, Surveying, Grading, Topography, Locating the Building	2	
6	Residential and Commercial Foundation Systems, Soils, Footings, Stem Walls, Drainage, How Foundations Work	10	Test 1 passed out
7	Residential and Commercial Floor Framing Systems, Components of Floor Systems, Floor Structures in Wood, Steel and Concrete	10 continued and 8	Test # 1 Due
8	The Commercial International Building Code & The Residential Code. Code History, Code Organization, Code Enforcement Examples of test problems will be covered in class lecture	Handouts	Test #2 passed out
9	Residential and Commercial Wall Framing Systems, Wall Structures in Wood, Steel, and CMU. Components of Wall Systems Moisture Control.	8 continued	Test # 2 Due
10	Residential and Commercial Roof Framing Systems and Roof Plans	9	
11	Residential and Commercial Mechanical, Plumbing and Electrical Systems general overview.	5	Test #3 passed out

12	Specifications Handout: CSI System, Organization, and Format. Legal Aspects of Specifications	Handout	Test #3 Due
13	FALL BREAK (NO CLASS)		
14	Elevations, Exterior Materials Reading Interior Elevations, Elevation Scales Interiors Materials, Reading Room Finish, Door Schedules, Casework Drawings, Mechanical and Electrical Schedules	6,7	
15	Reading Sections and Details, Reading Stair, Fireplace Drawings and Details	11,12, 13	Final Exam passed out
16	Last Class Date: Final Exam Due at class. (Late exams will not be accepted.) Turn in test and all handouts.		Final Exam DUE:
17	Final Exams begin for other VWCC classes.		

Notes to Instructors

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