



Course Description

BCN1275 | Building Construction Plans Interpretation 2 | 3.00 credits

In this course, students will plan interpretation of complex working drawings for multi-story residential and commercial buildings. Students will learn to read and understand construction working drawings, identify structural systems and their details. Familiarity with all aspects of complex working drawings will be addressed. Prerequisite: BCN1272.

Course Competencies:

Competency 1: The student will demonstrate knowledge of the concepts of building construction representation for multistory and commercial buildings by:

1. Identifying architectural symbols used in multi-story and commercial working drawings and the materials represented
2. Identifying the symbols for commercial electrical, mechanical, and plumbing materials, equipment, and installations
3. Identifying the expanded alphabet of lines and the purpose of lines within the drawing

Competency 2: The student will demonstrate knowledge of wood, concrete, masonry, and steel in multistory and commercial construction details by:

1. Identifying the various components of wood, concrete, and masonry construction in multi-story buildings
2. Identifying the various components of wood, concrete, masonry, and steel construction in commercial buildings
3. Identifying dimensions and standard sizes for materials
4. Analyzing standard assemblies of wood, concrete, masonry, and steel materials in multistory and commercial construction details

Competency 3: The student will demonstrate the ability to use and read Architect's and Engineer's scales by:

1. Obtaining accurate dimensions and sizes using different scales shown in drawings for multi-story and commercial buildings
2. Identifying dimensioning methods used for the various drawing elements and construction types

Competency 4: The student will demonstrate the ability to obtain specific information about buildings by:

1. Reading and interpreting the different building components as drawn and detailed in a set of working drawings for multistory and commercial buildings
2. Understanding the complex concepts of building construction sequence for multi-story and commercial buildings as related to drawings in a set

Learning Outcomes:

- Use quantitative analytical skills to evaluate and process numerical data
- Formulate strategies to locate, evaluate, and apply information
- Use computer and emerging technologies effectively
- Demonstrate an appreciation for aesthetics and creative activities