BCI C100: INTRODUCTION TO INTERNATIONAL BUILDING CODE

Item	Value
Curriculum Committee Approval Date	12/06/2024
Top Code	095720 - Construction Inspection
Units	3 Total Units
Hours	54 Total Hours (Lecture Hours 54)
Total Outside of Class Hours	0
Course Credit Status	Credit: Degree Applicable (D)
Material Fee	No
Basic Skills	Not Basic Skills (N)
Repeatable	No
Open Entry/Open Exit	No
Grading Policy	Standard Letter (S)

Course Description

Formerly: BCT C300. The student will gain insight into building laws founded on broad-based performance principles and will become familiar with the proper use of the International Building Code. This includes administrative, occupancy, types of construction, materials, fire-resistive standards, exiting, and detailed regulating provisions of the document. Transfer Credit: CSU.

Course Level Student Learning Outcome(s)

1. Communicate, analyze and apply international/residential building code requirements to ensure compliance with all current code standards and parameters.

Course Objectives

- 1. Explain or describe the format and performance principles of the Code and develop a working knowledge of the provisions contained therein.
- 2. Classify all buildings by the various types of construction and apply general requirements of minimum standards based on this classification.
- 3. Classify all buildings by use or occupancy, determine the occupant load, and calculate adequate emergency exit requirements.
- 4. Evaluate fire receptiveness of various construction materials and assemblies.
- 5. Explain and apply the administrative processes contained in the International Building Code, the California Administrative Code, and applicable federal requirements.
- 6. Examine construction plans and evaluate if minimum code requirements have been met for each occupancy.
- 7. Select the proper type of construction to ensure building codes and laws are being complied with.
- 8. Interpret, administer, and enforce the International Building Code specifications and guidelines to new and existing buildings or construction for residential, industrial, and commercial properties. (Building Inspector)

Lecture Content

History of building codes and worldwide comparisons Administrative provisions, structural tests and special inspections, and existing structures. Definitions and abbreviation, Section 301, 302, Table 3-A, Tables 3-B, Classification of Buildings by use or occupancy. Sections 303-312, occupancies classification Special detailed requirements based on use and occupancy. General building height and areas. Types of construction General Design requirements, concrete, fireplaces, and masonry construction. Wood construction, fire-extinguishing systems, and exterior wall coverings. Foundations, roofs, steel, and aluminum. Means of egress, stairs, exits, and occupant loads. Disabled access. Fire-resistance-rated construction, interior environment, glass and glazing, gypsum board and plaster, and plastic.

Method(s) of Instruction

- Lecture (02)
- DE Online Lecture (02X)

Instructional Techniques

A variety of instructional techniques will be employed to encompass different student learning styles. These may include but are not limited to, lecture, discussion, projects, and small group activities. Instruction will be supplemented, where appropriate, by digital media presentations resources, guest speakers, and field trips.

Reading Assignments

Required manuals, documents, license agreements and industry updates.

Writing Assignments

Weekly projects, plans, revisions, discussion topic responses that will demonstrate skills application through authentic projects.

Out-of-class Assignments

Read/View the required materials, conduct the appropriate research, prepare documents/plans, complete and revise projects, and prepare for quizzes/exams.

Demonstration of Critical Thinking

Projects will be completed to demonstrate competencies in the workplace in relation to international building code standards.

Required Writing, Problem Solving, Skills Demonstration

Weekly projects, plans, revisions, written reviews/critiques, and discussion topic responses that will demonstrate skills application and problem-solving skills through authentic projects. Certain sections of the code require mathematical skills.

Eligible Disciplines

Building codes and regulations (inspecting of construction, building codes,...: Any bachelor's degree and two years of professional experience, or any associate degree and six years of professional experience.

Other Resources

1. 2021 International Building Code, International Code Council, Inc. 2. 2021 IBC Workbook: A Code Companion, International Code Council, Inc. 3. Coastline Library