

# BCI C103: NON-STRUCTURAL PROVISIONS OF 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 C303. A comprehensive course designed to give the student an understanding of the Non-Structural Provisions of the International Building Code. Important aspects of this course are regulation of building areas, heights, location on property, fire-resistance rated materials, fire suppression systems, and the means of egress of buildings. Transfer Credit: CSU.

## Course Level Student Learning Outcome(s)

1. Communicate, analyze, and apply residential building code requirements to ensure compliance with all current code for non-structural provisions.

## Course Objectives

- 1. Analyze and appraise a structure for proper exiting and fire protection.
- 2. Explain code corrections to building personnel and managers.
- 3. Determine compliance with the building code in the areas of fire and life safety.
- 4. Correctly calculate allowable building areas and occupancy load factors.
- 5. Properly use and interpret the International Building Code and Code Standards.
- 6. Analyze and interpret testing of fire resistive materials.
- 7. Describe how outcome will be assessed.
- 8. Inspect for the correct installation of fire suppression systems.
- 9. Inspect for proper construction of buildings that use hazardous materials.
- 10. Inspect and identify glazing used in hazardous locations.
- 11. Inspect and identify fire resistive door and window opening assemblies.

## Lecture Content

REQUIREMENTS BASED ON OCCUPANCY Allowable floor areas  
 Allowable area increases Types of separation Occupancy separations  
 Area separations Location on property Maximum height Fire resistive  
 substitution Mixed occupancy buildings EXITING Occupant loads  
 Required exits Door, landing, and corridor requirements Stairway,  
 ramp, and escalator requirements Exit signs and illumination Exit  
 requirements based on occupancies REQUIREMENTS BASED ON TYPES  
 OF CONSTRUCTION Shaft enclosures Parapets Guardrails Fire resistive  
 requirements Exterior walls and openings Floors and walls Structural  
 frame Special hazards FIRE-EXTINGUISHING SYSTEM Automatic fire-  
 extinguishing systems Sprinkler system alarms Standpipes FIRE-  
 RESISTIVE STANDARDS Interior wall and ceiling finishes Fire-resistive  
 materials Fire-resistive assemblies for protection of openings Fire-  
 resistive floor/ceiling assemblies Fire-resistive walls and partitions  
 Fire and draft stopping SPECIAL OCCUPANCY PROVISIONS Atriums  
 Mezzanines Pedestrian walkways Group R occupancies Glazing High rise  
 buildings Malls

## 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

Complete reading assignments assigned from the textbook, supplemental readings, handouts, internet resources, and any assignments from Coastline's Library.

## 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 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 residential non-structural provisions in the building code.

## 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 including calculation of allowable building area and assessment of non-structural building code compliance.

## 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. Current edition of the International Building Code (International Code Council)
2. Current edition of the International Building Code Study Companion (International Code Council)
3. Coastline Library