



# Broward Community College

## Course Outline

STATUS:   A  

COMMON COURSE NUMBER:   BCT 2760  

COURSE TITLE:   Building Codes and Regulations  

CREDIT HOURS:           3          

**CONTACT HOURS BREAKDOWN:**

Lecture/Discussion           48          

Lab   

Other   

Contact Hours/Week           3          

**CATALOG COURSE DESCRIPTION:**

Prerequisite: None

Corequisite: None

A comprehensive study of the South Florida Building Code for the student presently working in the building construction industry.

General Education Requirements - Associate of Arts Degree, meets Area(s):

General Education Requirements - Associate in Science Degree, meets Area(s):

**UNIT TITLES:**

1. Administration and Enforcement
2. Requirement Based on Occupancy
3. Fire Protection Requirements
4. Types of Occupancies
5. Engineering and Construction Regulations

**I. Course Overview:**

Upon successful completion of this course, the students should be able to demonstrate a proficiency in the content of the South Florida Building Code according to accepted professional standards.

**II. Units:**

**Unit 1. Administration and Enforcement**

General Outcome:

- 1.0 The students should be able to demonstrate a proficiency to interpret the code controls of construction alteration, repair, demolition, removal, maintenance, occupancy and the use of new and existing buildings.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 1.1 Describe materials that are code regulated and their inspection.
- 1.2 Interpret and criticize lot diagrams, foundation, floor, roof, and structural plans that are submitted for permits.
- 1.3 Describe how to examine plans that have been submitted for application.

## Unit 2. Requirements Based on Occupancy

### General Outcome:

- 2.0 The students should be able to demonstrate a proficiency in the description and classification of buildings according to occupancy and type of construction as per the South Florida Building Code.

### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 2.1 Describe the different occupancy classifications according to the South Florida Building Code.
- 2.2 Describe the different types of construction classifications according to the South Florida Building Code.
- 2.3 Describe the typical occupancies for classification purposes.

### Unit 3. Fire Protection Requirements

#### General Outcome:

- 3.0 The students should be able to demonstrate a proficiency in the theory and application of the South Florida Building Code as it relates to the use and assembly of construction materials and their resistance to fire and the spread of flame.

#### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 3.1 Describe fire protection test procedures.
- 3.2 Describe the use of materials for encasement or protection of structural elements necessary for fire resistance.
- 3.3 Describe the requirements for the prevention of fire spread.

## Unit 4. Types of Occupancies

### General Outcome:

- 4.0 The students should be able to demonstrate a proficiency in describing types, uses, and occupancies regulated by the South Florida Building Code.

### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 4.1 Identify and describe those buildings in the high-hazard class of occupancy.
- 4.2 Describe special uses and occupancies of building types.
- 4.3 Describe the standards applicable to hazardous materials.

## Unit 5. Engineering and Construction Regulations

### General Outcome:

- 5.0 The students should be able to demonstrate a proficiency in the identification and description of the structural properties of building members as they pertain to subjected allowable stress values.

### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 5.1 Describe general structural design principles and requirements.
- 5.2 Describe materials and methods generally used in the design and construction of buildings.
- 5.3 Describe generally accepted national standards applicable to structural work regulated by the South Florida Building Code.