

Bossier Parish Community College  
Master Syllabus

**Course Prefix and Number:** FRSC 110

**Credit hours:** 3

**Course Title:** Building Construction for Fire Protection

**Course Prerequisites:** Completion of Principles of Emergency Services or instructor approval

**Textbook(s):** Brannigan, F. and G. Corbett, Brannigan's Building Construction for the Fire Service, 5<sup>th</sup> ed., Jones and Bartlett Learning

**Course Description:** This course provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies

**Learning Outcomes:**

At the end of the course, the student will be able to

- A. identify various classifications of building construction.
- B. understand theoretical concepts of how fire impacts major types of building construction.

To achieve the learning outcomes, the student will be able to:

1. describe building construction as it relates to firefighter safety, building codes, fire prevention, code inspection, firefighting strategy, and tactics. (A,B)
2. classify major types of building construction in accordance with a local/model building code. (A)
3. analyze the hazards and tactical considerations associated with the various types of building construction. (A,B)
4. explain the different loads and stresses that are placed on a building and their interrelationships. (A)
5. identify the function of each principle structural component in typical building design. (A)
6. differentiate between fire resistance, flame spread, and describe the testing procedures used to establish rating for each. (B)
7. classify occupancy designations of the building code. (A)
8. identify the indicators of potential structural failure as they relate to firefighter safety. (B)
9. identify the role of GIS as it relates to building construction. (A)

**Course Requirements:** To earn a grade of "C" or higher the student must earn **XXX%** of the total points for the course and meet all of the following course requirements.

## **Course Grading Scale:**

**Attendance Policy: Attendance Policy:** The college attendance policy (for the classroom) is available at <http://www.bpcc.edu/catalog/current/academicpolicies.html>

**Course Fees:** (if applicable)

## **Nondiscrimination Statement**

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### COORDINATOR FOR SECTION 504 AND ADA

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Equity/Compliance Coordinator

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