

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 FRSC 100 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

**Software / Hardware:**

An electronic textbook is available with added learning resources available from the publisher of the text book. The student must have access to a computer with applicable hardware, software and internet access the online learning management system (Canvas)

**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 through demonstration of effective research skills.

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 70% of the total points for the course and meet all the following course requirements.

1. The student must successfully complete the course with an average of 70% or above on the combined learning outcomes.
2. Each student is expected to attend classes regularly; excessive unexcused absences constitute grounds for suspension (refer to the student handbook for attendance policies).
3. Each student must have access to a reliable Internet connection to complete online discussion boards, course assignments, quizzes and tests.

### **Course Grading Scale:**

90-100=	A
80-89=	B
70-79=	C
60-69=	D
0-59=	F

### **Attendance Policy:**

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

### **Course Fees:**

This course is accompanied with an additional non-refundable fee for supplemental materials, laboratory supplies, software licenses, certification exams, and/or clinical fees.

### **Non-Discrimination Statement**

Bossier Parish Community College does not discriminate on the basis of race, color, national origin, gender, age, religion, qualified disability, marital status, veteran's status, or sexual orientation in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of its operations. Bossier Parish Community College does not discriminate in its hiring or employment practices.

**COORDINATOR FOR SECTION 504 AND ADA**

Angie Cao, Student and Disability Services Specialist  
Disability Services, F254, 6220 East Texas Street, Bossier City, LA 71111  
318-678-6511

[acao@bpcc.edu](mailto:acao@bpcc.edu)

Hours: 8:00 a.m.-4:30 p.m. Monday - Friday, excluding holidays and weekends.

**Equity/Compliance Coordinator:**

Teri Bashara, Director of Human Resources

Human Resources Office, A-105

6220 East Texas Street

Bossier City, LA 71111

Phone: 318-678-6056

Hours: 8:00 a.m.-4:30 p.m. Monday - Friday, excluding holidays and weekends.

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