

COURSE TITLE: Building Construction **COURSE NO**
INSTRUCTOR: John L. Nickerson **SEMESTER:** Spring **YEAR:** 2015
CONTACT INFO: (860) 460-0981 **E-MAIL:** JNickerson@jlnllc.com
CLASS HOURS: 3 **LAB HOURS:** 0 **CREDIT HOURS:** 3
REQUIRED TEXT: Brannigan's Building Construction for the Fire Service Fifth Edition
AUTHOR: Glenn P Corbett/Francis L. Brannigan

OBJECTIVES:

- Describe building construction as it relates to firefighter safety, building codes, fire prevention, code inspection, firefighting strategy, and tactics.
- Classify major types of building construction in accordance with a local/model building code.
- Analyze the hazards and tactical considerations associated with the various types of building construction.
- Explain the different loads and stresses that are placed on a building and their interrelationships.
- Identify the function of each principle structural component in typical building design.
- Differentiate between fire resistance, flame spread, and describe the testing procedures used to establish ratings for each.
- Classify occupancy designations of the building code.
- Identify the indicators of potential structural failure as they relate to firefighter safety.
- Identify the role of GIS as it relates to building construction.

GRADING:

- 1) 5 Exams
- 2) Weekly Homework Assignments-Test Grade
- 3) Project Assignment
- 4) Project Assignments maybe be given. = to a test grade

EXAM/ASSIGNMENT COMPLETION:

I reserve the right to deduct 10% from the possible points that you may receive for an assignment/exam, for each class session that an assignment or exam is late, up to three class sessions.

After three class sessions, I will record a zero (0) for that assignment/exam, unless you have made previous arrangements with me and only in exceptional circumstances.

All assignments must be submitted by the end of the last class.

SPECIAL NOTE(S):

- 1) Attendance Policy – All absences must be approved and known of before class begins.
- 2) Extenuating circumstances are the only exception.

Week 1

Week's Objectives

- Course Introduction
- Chapter 1

Individual Assignments

- Chapter 1 Review Questions
- Case Study
- Read Chapter 2

Week 2

Week's Objectives

- Chapter 1 Review
- Review Case Studies
- Chapter 2

Individual Assignments

- Read Chapters 3

Week 3

Week's Objectives

- Chapter 2 Review
- Chapter 3

Individual Assignments

- Prepare for Exam 1 (Chapters 1 ,2, 3)
- Read Chapter 4

Week 4

EXAM #1

Week's Objectives

- Chapter 4

Individual Assignments

- Chapters 4 Review Questions
- Read Chapter 5

Week 5

Week's Objectives

- Turn in Exam 1
- Chapter 4 Review
- Chapter 5

Individual Assignments

- Chapter 5 Review Questions
- Read Chapter 6

Week 6

Week's Objectives

- Chapter 5 Review
- Chapter 6

Individual Assignments

- Prepare for Exam 2 (Chapters 4, 5, 6)
- Read Chapter 7

Week 7

EXAM #2

Week's Objectives

- Turn in Exam 2
- Chapter 7

Individual Assignments

- Chapter 7 Review Questions
- Read Chapter 8

Week 8

Week's Objectives

- Turn in Exam 2
- Chapter 8 Review

Individual Assignments

- Chapters 8 Review Questions
- Read Chapter 9

Week 9

Week's Objectives

- Chapter 9 Review

Individual Assignments

- Prepare for Exam 3 (Chapters 7, 8, 9)
- Read Chapter 10

Week 10

EXAM#3

Week's Objectives

- Chapter 10 Review

Individual Assignments

- Chapter 10 Review Questions
- Read Chapter 11

Week 11

Week's Objectives

- Turn in Exam 3
- Chapter 11 Review

Individual Assignments

- Chapter 11 Review Questions
- Read Chapter 12

Week 12

Week's Objectives

- Chapter 11 Review
- Chapter 12

Individual Assignments

- Exam 4 (Chapter 10, 11, 12)

Week 13

Week's Objectives

- Chapter 13 Review

Individual Assignments

- Exam Review
- Read Chapter 14

Week 14

Week's Objectives

- Chapter 14 Review

Individual Assignments

- Exam Review
- Final Exam