

Fire Safety Building Design and  
Construction

THE UNIVERSITY OF AKRON  
COLLEGE OF ENGINEERING AND APPLIED SCIENCES  
FIRE PROTECTION TECHNOLOGY

Course Name: Fire Safety Building Design and Construction  
Course Number: ENR 5102  
Course Credit: 3 credit hours  
Prerequisites: none

Course Description

This course provides the components of building construction that relates to fire and life safety. The focus of this course is on firefighter safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning, fire operations and operating emergencies.

Program Outcomes:

Upon Completion of the course the student will:

- 1) Demonstrate an understanding of building construction as it relates to firefighter safety, building codes, fire prevention, code inspection and firefighting strategy and tactics.
- 2) Classify major types of building construction.
- 3) Analyze the hazards and tactical considerations associated with the various types of building construction.
- 4) Explain the different loads and stresses that are placed on a building and their relationship.
- 5)

