

SPRINGFIELD TECHNICAL COMMUNITY COLLEGE

ACADEMIC AFFAIRS

Course Number: FST-110 Class/Lect. Hours: 3 Lab Hours: _____ Credits: 3 Dept.: Fire Protection and Safety Technology
Course Title: Building Construction Semester: Fall Year: 2019

Course Description, Prerequisite, Corequisite:

An exploration of building construction and design with emphasis focused on fire protection concerns, review of statutory and suggested guidelines, local, state, and national.

OBJECTIVES/COMPETENCIES

Course Objectives	Competencies
Identify various classifications of building construction	To be able to describe building construction as it relates to safety, building codes, fire prevention, code inspection, and firefighting strategy/tactics Classify major types of building construction in accordance of local building codes Analyze hazards and tactical considerations associated with the various types of building construction

Course Objectives	Competencies
<p>Understand theoretical concepts of how fire impacts major types of building construction</p>	<p>Explain the different loads and stresses that are placed on a building and the interrelations</p> <p>Identify the function of each principle structural component in building design</p> <p>Differentiate between fire resistance, flame spread, and describe the testing procedures used to establish ratings for each.</p> <p>Classify occupancy designations of the building code</p> <p>Identify the indicators of potential structural failure as they relate to firefighter safety</p> <p>Identify the of GIS as it relates to building construction</p>