

# Structural Fire Science

## Certificate of Completion

**38 credit hours**

The Certificate of Completion in Structural Fire Science will prepare the student to rapidly enter the workforce, and ensure successful employment with the Fire and Emergency Services. The core coursework for the AAS degree is designed to ensure the student has attained a mastery of the fundamental principles in the causes of fire, organizational structure, fire behavior, emergency tactics and fire suppression, as well as the basics of urban firefighting. This core coursework is also the foundation of the “Fire Academy Certification”, demonstrating general proficiency for the student to enter the workforce as an entry level firefighter.

1. Students will be able to demonstrate a complete proficiency of all job performance requirements established in NFPA 1001, as applicable to this program.
2. Students will be able to discuss the impact of the history of Fire Service as it relates to current industry trends.
3. Students will be able to evaluate the principles of fire chemistry, fire behavior, and safety practices in the fire service industry.

## Certificate Requirements

### Technical Requirements – 38 hours

Course # - Structural Firefighter I w/Lab – 6

Course # - Structural Firefighter II w/Lab – 6

FIRE 119 - Basic Auto Extrication – 3

FIRE 204 - Structural Firefighting Tactics and Strategies – 3

FIRE 117 - Hazardous Materials Awareness and Operations – 3

FIRE 103 - Fire Protection Hydraulics and Water Supply – 3

BIOL 109- Survey of Anatomy and Physiology for Allied Health (*co-requisite for EMS 111*) -3

EMS 111 - EMT Basic – 111