

# FIRE SCIENCE CERTIFICATE - FST7

The Fire Science Technology Certificate provides instruction in fire prevention methodology, fire detection systems, fire codes, fire investigation, rescue, safety and salvage procedures, hazardous materials, and fire behavior and extinguishment. This program assists in qualifying firefighters for management positions within fire service. This certificate is currently only offered for dual-enrollment candidates until spring 2021, at which time will transition to a credit offered program available to any student.

## Requirements

Courses	Course Title	Credit Hours
<b>Required Course Information</b>		
AHS 114	Basic First Aid	1
EMS 105	Emergency Medical Care I	4
EMS 106	Emergency Medical Care II	4
FST 102	Firefighter I Basic	3
FST 103	Firefighter I Advanced	5
FST 104	Firefighter II	3
Subtotal		20
Total Hours		20

## Program Student Learning Outcomes

### Purpose Statement

To prepare students for entry level and career advancement in the fire service by educating them in the fundamental concepts of professionalism, communication, problem solving, teamwork, and hands-on training for a successful career in the fire service.

### Program Student Learning Outcomes

1. Students will acquire the skills and knowledge required to assess and manage patients of all ages with a variety of complaints, medical conditions, and traumatic injuries as an EMT/firefighter.
2. The students will demonstrate and employ the professional attributes expected of the EMT/firefighter.
3. Students will perform and demonstrate the roles and responsibilities of an EMT/firefighter with regard to personal safety and wellness, as well as safety of others.
4. The student will perform the duties of an EMT/firefighter with regard for medical-legal and ethical issues, function successfully under supervision/direction, and within the scope of practice.
5. Develop an awareness of the entrance requirements for careers in the emergency medical and fire services.
6. Students will apply critical thinking skills necessary to utilize appropriate strategies and tactics to safely manage incidents in emergency medical and fire service operations.