

## **FIRE SCIENCE**

### **Certificate of Proficiency-Effective Catalog 2017-2018**

The Fire Science Certificate is designed to prepare students for a career in the fire service or to enhance the knowledge and skills of individuals already working or volunteering as fire fighters. All courses in this certificate can be applied toward the AS in Public Service degree program.

___ ENGL 151	English I	3 cr.
___ MATH 165	College Algebra or	3-5 cr.
or		
___ MATH 191	Precalculus I	
___ FIRE 162	Principles of Emergency Services	3 cr.
___ FIRE 165	Building Construction for Fire Protection	3 cr.
___ FIRE 166	Fire Behavior and Combustion	3 cr.
___ FIRE 255	Fire Inspector I	3 cr.
___ FIRE 256	Fire Inspector II	3 cr.
___ FIRE 261	Principles of Fire and Emergency Services Safety and Survival	3 cr.
___ FIRE 266	Fire Prevention	3 cr.
___ FIRE 268	Fire Protection Systems	<u>3 cr.</u>
	<b>Total Credits</b>	<b>30-32 cr.</b>

#### **Program Goals**

The Fire Science Certificate of Proficiency program prepares students for work as fire fighters, code enforcement officers, and insurance investigators and provides opportunities for volunteer and paid members of the fire service to upgrade their skills.

#### **Program Objectives**

Students who successfully complete this program will be able to:

- Summarize the various aspects of and issues associated with emergency services
- Examine the role of building construction as it relates to the safety of firefighters and others
- Explain how and why fires start, spread, and are controlled
- Demonstrate preparedness to take the state exam for New Jersey Fire Inspector certification
- Discuss the history of national firefighter life safety initiatives as well as the need for change throughout emergency services
- Identify the areas pertaining to fire prevention and elaborate on their contributions
- Describe the functions and applications of alarm, extinguishing, and suppression fire protection systems

Board of Trustees Approval Date: November 4, 2013

Board of Trustees Approval Date: January 26, 2017