

# FIRE TECHNOLOGY AND ADMINISTRATION, AS

**Program code:** FTAD-AS

**Location:** Capital, Gateway, Naugatuck Valley

## Program Description

The program in Fire Technology and Administration trains and educates competent leaders in fire protection, prevention, and administration. It also provides training and education for insurance companies and industries involved in fire prevention and protection.

Fire Technologists work in career and volunteer fire departments; local, state, and federal government agencies; industry, architectural and construction firms, and insurance organizations. They must recognize the need for fire prevention activities, the necessity of educating both children and adults in fire safety, and the importance of enforcing fire prevention codes. Because fire technologists encounter a broad spectrum of problems and must be well versed in many subjects, the work of the fire technologist is seldom routine.

The Associate in Science degree in Fire Technology and Administration aligns with the National Fire Academy (NFA) standardized fire science courses.

## Learning Outcomes

Upon successful completion of all program requirements, graduates of the program will:

1. Understand fire protection and emergency services; and career opportunities in fire protection and related fields.
2. Explain theories and fundamentals of how and why fires start, spread, and are controlled including how building construction and pre-planning relates to firefighter and life safety.
3. Describe the basic principles and history related to the national firefighter life safety initiatives.
4. Describe inspection practices and procedures and identify and describe the professional qualifications for fire marshal, plan examiner, fire inspector, fire and life safety educator, and fire investigator.
5. Discuss the basic concepts of occupational health and safety as it relates to emergency service organizations.
6. Explain the benefits of fire protection systems in various types of structures.

In addition, the graduate will complete the comprehensive learning outcomes identified with the General Education Core.

## Degree Requirements

Code	Title	Credits
<b>General Education Courses</b>		
ENG 1010	Composition	3
Choose one of the following:		3-4
MATH 1002	Math for Science and Technology	
MATH 1010	Intermediate Algebra (or higher)	
PHIL 1101	Ethics	3

CHEM 1110	Concepts of Chemistry	4
ECON 1001	Principles of Macroeconomics	3
BUSN 2100	Business Communication	3
CCS 1001	College and Career Success	3

### Program Courses

FTAD 1012	Introduction to Fire Technology	3
FTAD 1016	Building Construction	3
FTAD 1018	Fire Prevention and Inspection	3
FTAD 1022	Fire Behavior and Combustion	3
FTAD 1026	Safety and Survival	3
FTAD 2010	Water Supply and Hydraulics	3
FTAD 2012	Legal Aspects of Emergency Services	3
FTAD 2016	Municipal Fire Administration	3
FTAD 2017	Occupational Safety and Health Administration	3
FTAD 2109	Fire Investigation I	3
FTAD 2207	Fire Protection Systems	3
FTAD 2209	Fire Investigation II	3
FTAD 2300	Strategy and Tactics	3

**Total Credits** 61-62

- Firefighter 1 & 2 Certificate