

# FIRE PROTECTION TECHNOLOGY, ASSOCIATE IN SCIENCE

The Fire Protection Technology program prepares students for a career in the fire service. The curriculum includes courses in building construction related to firefighter and life safety, history and philosophy of fire prevention, fire and life safety education, fire investigation, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers, career opportunities in fire protection and related fields, and the culture and history of emergency services.

## Learning Outcomes

Upon successful completion of the program, students will be able to:

- Analyze the causes of fire, determine extinguishing agents and methods, differentiate the stages of the fire and fire development, and compare methods of heat transfer.
- Assess emergency situations and employ strategies and tactics to mitigate the situation.
- Analyze and assess firefighter hazards and operations inherent to the profession.

## Associate in Science Degree Major Requirements

Code	Title	Units
<b>Certificate of Achievement Requirements</b>		
FPTC 1	Principles of Emergency Services	3
FPTC 2	Fire Behavior and Combustion	3
FPTC 3	Principles of Fire and Emergency Services Safety & Survival	3
FPTC 4	Building Construction for Fire Prevention	3
FPTC 5	Fire Prevention	3
FPTC 6	Fire Protection Systems	3
<b>Required Core</b>		
Select a minimum of 12 units of the following:		12-14.5
FPTC 100	Rescue Systems 1: Basic Rescue Skills	
FPTC 101	Introduction to Firefighter Academy	
FPTC 102A	Firefighter I Observation and Certification Assessment	
FPTC 102B	Firefighter II Observation and Certification Assessment	
FPTC 104A	Fire Apparatus Driver/Operator 1A: Emergency Vehicle Operati	
FPTC 104B	Fire Apparatus Driver/Operator 1B: Pump Operations	
FPTC 105A	Firefighter Academy	
FPTC 105B	Firefighter Academy Application	
FPTC 106	Firefighter II Academy	
FPTC 112D	Instructor I - Instructional Methodology	
FPTC 140	I-300 Intermediate Incident Command System	
FPTC 141	I-400 Incident Command System	

**TOTAL MAJOR UNITS** 30-32.5

### Additional Requirements

Complete Competency Requirements, general education pattern (MPC General Education, CSU General Education, or IGETC), and electives, if needed, for a total of 60 degree-applicable units.

**Total Units** 60

## Graduation Requirements

Please refer to the graduation requirements section of the Catalog for information about degree and certificate requirements including Reading and Writing, Mathematics, Information Competency, and General Education requirements.

MPC "Ready to Work" Career Education programs offer students the opportunity to gain knowledge and skills needed for employment and job advancement.

All students should consult with a Counselor to discuss career pathways, for support with career exploration and planning, and to create a personalized education plan to help them meet their academic, career, and personal goals. Visit MPC's Counseling website for more information about Counseling services provided by MPC and to connect with a Counselor.

Additional resources are available through MPC's Career & Transfer Resource Center (CTRC). The CTRC offers career resources, workshops, guidance and referrals. Visit the CTRC for support finding online career information and other resources to explore majors, occupations, and employment information.