



## Fire Science Technology A.A.S.

Curriculum Code: 0123

Effective: Fall 2019 – Summer 2024

### Description

This degree program is accredited through the International Fire Service Accreditation Congress (IFSAC) and provides students with three options to pursue a fire service career area. Students in this program choose one of the following pathways to determine the courses to take each semester.

1. National Fire Academy Curriculum pathway: This option provides an individual with the ability to continue their educational pursuit to a four-year fire science program.
2. Fire Fighter pathway: This option follows a general fire service career path and meets the state standards of the Michigan Fire Fighter Training Council's Fire Fighter I and II certification process.
3. Fire Service Management pathway: This option enhances the promotional opportunities for the veteran fire service employee. Courses provide a versatile approach to fire service management.

Not all courses in this program transfer to all colleges. Students planning to transfer should see a Fire Science advisor before enrolling in any course.

### Contact Information

Visit the Public Service Careers Program website, or in person at West Campus Building, Room M127, telephone number 517-483-1570.

### General Education Core Courses, Recommended Choices

(For the full list of options, see [General Education Core](#))

- Communication – *Select one*  
COMM 130, Fund of Public Speaking, 3 credits / 3 billing hours
- Global Perspective and Diversity – *Select one*  
MGMT 234, Diversity in the Workplace, 3 credits / 3 billing hours
- Math – *Select one*  
MATH 119, Math - Applications for Living, 4 credits / 4 billing hours
- Science – *Select one*  
BIOL 145, Intro Anatomy and Physiology, 4 credits / 6 billing hours
- Writing – *Select one*  
ENGL 124, Technical Writing, 3 credits / 3 billing hours

## National Fire Academy Pathway

### Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
FIRE 100	Principles Emergency Services	4 / 4
FIRE 104	Fire Behavior & Combustion	3 / 3
FIRE 105	Fire/Hydraulics/Water Supply	4 / 4
FIRE 110	Fire Prevention	3 / 3
FIRE 112	Occup Health & Safety/Fire Svc	4 / 4
FIRE 115	Bldg Construction/Fire Protect	4 / 4
FIRE 122	Hazardous Materials Chemistry	4 / 4
FIRE 125	Fire Protection Systems	4 / 4
FIRE 150	Strategy and Tactics	4 / 4
FIRE 210	Fire Investigation I	4 / 4
FIRE 215	Fire Investigation II	3 / 3
FIRE 250	Fire Administration I	4 / 4
FIRE 260	Legal Aspects/Fire Service	4 / 4
FIRE 270	Fire Service Career Developmnt	3 / 3

### Total Credit Hours

69 credits / 71 billing hours

### Recommended Course Sequence

Semester I	Semester II
FIRE 100	Math Core
FIRE 104	Science Core
FIRE 110	Writing Core
FIRE 112	FIRE 105
FIRE 115	FIRE 150

Semester III	Semester IV
Communication Core	FIRE 125
Global Perspectives and Diversity Core	FIRE 215
FIRE 122	FIRE 260
FIRE 210	FIRE 270
FIRE 250	

## Fire Fighter Pathway

### Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
FIRE 101	MI F.F.T.C. Basic Fire Level I	10 / 14
FIRE 102	MI F.F.T.C. Basic Fire Lev II	6 / 8
FIRE 104	Fire Behavior & Combustion	3 / 3
FIRE 105	Fire/Hydraulics/Water Supply	4 / 4
FIRE 110	Fire Prevention	3 / 3
FIRE 112	Occup Health & Safety/Fire Svc	4 / 4
FIRE 115	Bldg Construction/Fire Protect	4 / 4
FIRE 125	Fire Protection Systems	4 / 4
FIRE 150	Strategy and Tactics	4 / 4
FIRE 270	Fire Service Career Developmnt	3 / 3
PFFT 119	Fire Academy Fitness Training	3 / 4

### Total Credit Hours

65 credits / 74 billing hours

### Recommended Course Sequence

Semester I	Semester II
FIRE 101 FIRE 102 PFFT 119	Communication Core Math Core Science Core Writing Core FIRE 105

Semester III	Semester IV
Global Perspectives and Diversity Core FIRE 104 FIRE 110 FIRE 112 FIRE 115	FIRE 125 FIRE 150 FIRE 270

## Fire Service Management Pathway

### Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
FIRE 100	Principles Emergency Services	4 / 4
FIRE 104	Fire Behavior & Combustion	3 / 3
FIRE 105	Fire/Hydraulics/Water Supply	4 / 4
FIRE 110	Fire Prevention	3 / 3
FIRE 112	Occup Health & Safety/Fire Svc	4 / 4
FIRE 115	Bldg Construction/Fire Protect	4 / 4
FIRE 125	Fire Protection Systems	4 / 4
FIRE 150	Strategy and Tactics	4 / 4
FIRE 220	Hazardous Materials/Fire Svc	4 / 5
FIRE 245	Fire Officer I & II	4 / 4
FIRE 250	Fire Administration I	4 / 4
FIRE 255	Fire Officer III & IV	4 / 4
FIRE 265	Fire Service Blue Card	4 / 4.5
FIRE 270	Fire Service Career Developmnt	3 / 3

### Total Credit Hours

70 credits / 73.5 billing hours

### Recommended Course Sequence

Semester I	Semester II
FIRE 100	Math Core
FIRE 104	Science Core
FIRE 110	Writing Core
FIRE 112	FIRE 105
FIRE 115	FIRE 150

Semester III	Semester IV
Communication Core	FIRE 125
Global Perspectives and Diversity Core	FIRE 220
FIRE 245	FIRE 255
FIRE 250	FIRE 270
FIRE 265	