



## **Fire Science Technology A.A.S.**

Career Community: Public Service Careers

Curriculum Code: 0123

Effective: Fall 2023 – Summer 2028

### **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 subspecialty 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.

### **Milestone**

In addition to the required General Education courses in Math and English, completion of FIRE 100, or FIRE 101 and FIRE 102, with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

### **Additional Information**

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.

Upon completion of a subspecialty, any additional subspecialty courses will not count toward the student's enrollment level for determining financial aid eligibility.

### **Contact Information**

For further information, including career options, course substitutions and waivers, etc., contact the Public Service Careers Program via website, or in person at West Campus Building, Room M127, telephone number 517-483-1570.

### **General Education Applied Degree, Recommended Choices**

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

- English Composition or Applied English – *Select one*  
ENGL 124, Technical Writing, 3 credits / 3 billing hours

- English Composition (second course)/Communication or Applied Communication – *Select one*  
COMM 130, Fundamentals Public Speaking, 3 credits / 3 billing hours
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences– *Select one*  
MGMT 234, Diversity in the Workplace, 3 credits / 3 billing hours
- Mathematics or Applied Mathematics – *Select one*  
MATH 119, Math - Applications for Living, 4 credits / 4 billing hours
- Natural Sciences Lab or Applied Science and Technology Lab – *Select one*  
BIOL 145, Intro Anatomy and Physiology, 4 credits / 6 billing hours

## National Fire Academy Subspecialty 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

### Minimum Total Credit Hours

69 credits / 71 billing hours

### Recommended Course Sequence

Semester I
Gen Ed – English Composition or Applied English
FIRE 100 – Milestone course
FIRE 110
FIRE 112
FIRE 115

Semester II
Gen Ed – Mathematics or Applied Mathematics
Gen Ed – Natural Sciences Lab or Applied Science and Technology Lab
FIRE 104
FIRE 105
FIRE 150

Semester III
Gen Ed – English Composition (second course)/Communication or Applied Communication
Gen Ed – Humanities and Fine Arts or Social Sciences or Applied Social Sciences
FIRE 122
FIRE 210
FIRE 250

Semester IV
FIRE 125
FIRE 215
FIRE 260
FIRE 270

## Fire Fighter Subspecialty 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

### Minimum Total Credit Hours

65 credits / 74 billing hours

### Recommended Course Sequence

Semester I
FIRE 101 – Milestone course
FIRE 102 – Milestone course
PFFT 119

Semester II
Gen Ed - English Composition or Applied English
Gen Ed – Mathematics or Applied Mathematics
Gen Ed – Natural Sciences Lab or Applied Science and Technology Lab
FIRE 104
FIRE 105

Semester III
Gen Ed – English Composition (second course)/ Communication or Applied Communication
Gen Ed - Humanities and Fine Arts or Social Sciences or Applied Social Sciences
FIRE 110
FIRE 112
FIRE 115

Semester IV
FIRE 125
FIRE 150
FIRE 270

## Fire Service Management Subspecialty 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

### Minimum Total Credit Hours

70 credits / 73.5 billing hours

## Recommended Course Sequence

Semester I
Gen Ed – English Composition or Applied English
FIRE 100 – Milestone course
FIRE 110
FIRE 112
FIRE 115

Semester II
Gen Ed – Mathematics/Applied Mathematics
Gen Ed – Natural Sciences Lab or Applied Science and Technology Lab
FIRE 104
FIRE 105
FIRE 150

Semester III
Gen Ed – English Composition (second course)/Communication or Applied Communication
Gen Ed – Humanities and Fine Arts or Social Sciences or Applied Social Sciences
FIRE 245
FIRE 250
FIRE 265

Semester IV
FIRE 125
FIRE 220
FIRE 255
FIRE 270

*LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree title changes, and make course changes as needed, without prior notice.*