

## Fire Technology

### Credentials

Fire Fighter Technology Certificate	30 cr.
Fire Fighter Technology AAS Degree	63-72 cr.
Fire and Emergency Services AAS Degree	60-78 cr.

### Major Description

Today's fire fighter has a wide range of responsibilities, from fighting fires and rescuing victims, to salvaging building contents, providing medical services, and having an awareness of leaderships role in tactics and strategies as well as fire service administration. Schoolcraft offers three educational options to help students become part of this field.

Our certificate program provides career training for entry level fire fighters. It is designed for students who are currently entry level, volunteer or paid-on-call employees of a recognized Michigan fire department or are currently seeking employment as such. The program works in cooperation with the Michigan Fire Fighters Training Council and can prepare you to take the state exam for certification as an entry-level fire fighter.

The Fire Fighter Technology associate in applied science degree combines lectures and hands-on activities that prepare the student to respond in a variety of emergencies. Our Fire Fighter Technology degree program is available to students wishing to attend part-time or full-time.

The Fire and Emergency Services associate in applied science degree will expose students to the broader spectrum of the fire and emergency services in the post-9/11 world. Students will learn the core traditional fire service information along with the newer emergency services, emergency management and homeland security components common in the industry today.

Most programs enable students to participate in courses that utilize Schoolcraft's state-of-the-art Public Safety Training Complex. It includes a four-story burn tower that simulates a variety of firefighting and rescue situations, including high-angle approaches. Credits may also transfer toward a bachelor's degree at a four-year college or university.

## Fire Fighter Technology Certificate

Schoolcraft program code # 1YC.00149

The fire fighter technology program provides career training for fire protection technicians. The program is offered in cooperation with the Michigan Fire Fighters Training Council and focuses on meeting the needs of fire service personnel. It is designed for students who are currently employed by Michigan Fire Marshal/recognized fire departments, currently seeking employment and/or volunteer in recognized fire districts. All courses meet the state-mandated requirements for preparing students to take the state exam for certification as entry-level fire fighters.

The Fire Fighter 1 and 2 courses cover content that is identical to the Fire Academy course, but in a part-time format. Therefore two sample schedules are offered below. Fire Fighter 1, 2 and/or Academy courses require students to attain an average of 70 percent or better on test scores and to score at least 70 percent on their final exam to receive a passing grade of 2.0. The Emergency Medical Technology—Basic course requires an average of 80 percent on tests and an 80 percent on the final for a grade of 2.7. Students achieving an 80 percent or higher in Emergency Medical Technology—Basic course will receive a certificate of completion and be eligible to test for State licensure. Practical skills in both areas must be passed at stated proficiency levels to successfully complete each course and be recommended for the state certification exams.

Students who satisfactorily complete the program requirements qualify for a certificate of program completion.

**Contact the Fire Technology office at 734-462-4305 for additional information.**

*The Fire Technology Fire Fighter 1, 2 and fire academy programs are certified by the Michigan Office of Fire Fighter Training. For more information regarding certification please contact: Bureau of Fire Services/OFFT PO Box 30700, Lansing, MI 48909 • 616-447-2689 | [www.michigan.gov](http://www.michigan.gov)*

Not all courses are offered each semester. Students should work with an academic advisor to develop a schedule that will work for them. Students planning to transfer should check the transfer institution's requirements/guides or discuss their options with an academic advisor. Number of credits may vary depending on the course selection.

### SAMPLE SCHEDULE OF COURSES

#### First Year - Fall Semester

Course #	Course Title	Credits
FIRE 112	Fire Fighter 1 - Basic Fire Suppression	10
	<b>Total Credits: 10</b>	

#### First Year - Winter Semester

Course #	Course Title	Credits
FIRE 119	Fire Fighter 2 - Advanced Fire Suppression	10
	<b>Total Credits: 10</b>	

## Fire Fighter Technology Certificate (continued)

### First Year - Spring Session

Course #	Course Title	Credits
EMT 115	Emergency Medical Technology - Basic	10
	<b>Total Credits: 10</b>	

**PROGRAM TOTAL 30 CREDITS**

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## ALTERNATE - Fire Fighter Technology Certificate

### First Year - Fall Semester

Course #	Course Title	Credits
FIRE 124	Fire Academy	20
	<b>Total Credits: 20</b>	

### First Year - Winter Semester

Course #	Course Title	Credits
EMT 115	Emergency Medical Technology - Basic	10
	<b>Total Credits: 10</b>	

**PROGRAM TOTAL 30 CREDITS**

## Fire Fighter Technology AAS Degree

Schoolcraft program code # AAS.00177

Recognizing the need for more highly skilled fire fighters, many municipalities now require additional education for their employees. The curriculum developed for the associate in applied science degree program combines lecture with hands-on activities to prepare the student to respond to a variety of emergencies. Specialists in the field provide valuable input on both content and methodology.

The Fire Fighter 1 and 2 courses cover content that is identical to the Fire Academy course, but in a part-time format. Therefore two sample schedules are offered below.

Students who satisfactorily complete all college and program requirements qualify for an associate in applied science degree.

**Contact the Fire Technology office at 734-462-4305 for additional information.**

Not all courses are offered each semester. Students should work with an academic advisor to develop a schedule that will work for them. Students planning to transfer should check the transfer institution's requirements/guides or discuss their options with an academic advisor. Number of credits may vary depending on the course selection.

### SAMPLE SCHEDULE OF COURSES

#### First Year - Fall Semester

Course #	Course Title	Credits
FIRE 112	Fire Fighter 1 - Basic Fire Suppression	10
English	Select one:	3
ENG 100	Communication Skills	
ENG 101	English Composition 1	
Mathematics	General Education Mathematics course	3-4
	<b>Total Credits: 16-17</b>	

#### First Year - Winter Semester

Course #	Course Title	Credits
FIRE 119	Fire Fighter 2 - Advanced Fire Suppression	10
Science	General Education Science course	3-4
	BIOL 101 General Biology (recommended for students interested in EMT)	
FIRE 101	Principles of Emergency Services	3
	<b>Total Credits: 16-17</b>	

## Fire Fighter Technology AAS Degree (continued)

### First Year - Spring/Summer Session

Course #	Course Title	Credits
Social Science	General Education Social Science course	3-4
Humanities	General Education Humanities course	1-4
	<b>Total Credits: 4-8</b>	

### Second Year - Fall Semester

Course #	Course Title	Credits
English	Select one:	3
ENG 116	Technical Writing	
ENG 102	English Composition 2	
EMT 115	Emergency Medical Technology - Basic	10
FIRE 131	Fire Fighting - Tactics and Strategy	3
	<b>Total Credits: 16</b>	

### Second Year - Winter Semester

Course #	Course Title	Credits
FIRE 205	Fire Department Organization and Administration	3
FIRE 125	Building Construction for the Fire Service	3
HS 202	Introduction to Emergency Management	3
Elective	Select from list	2-5
	<b>Total Credits: 11-14</b>	

**PROGRAM TOTAL 63-72 CREDITS**

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## ALTERNATE - Fire Fighter Technology AAS Degree

### First Year - Fall Semester

Course #	Course Title	Credits
FIRE 124	Fire Academy	20
	<b>Total Credits: 20</b>	

## ALTERNATE - Fire Fighter Technology AAS Degree (continued)

### First Year - Winter Semester

Course #	Course Title	Credits
English	Select one:	3
ENG 100	Communication Skills	
ENG 101	English Composition 1	
Mathematics	General Education Mathematics course	3-4
FIRE 101	Principles of Emergency Services	3
Science	General Education Science course	3-4
	BIOL 101 General Biology (recommended for students interested in EMT)	
	Total Credits: 12-14	

### First Year - Spring/Summer Session

Course #	Course Title	Credits
Social Science	General Education Social Science course	3-4
Humanities	General Education Humanities course	1-4
	Total Credits 4-8	

### Second Year - Fall Semester

Course #	Course Title	Credits
English	Select one:	3
ENG 116	Technical Writing	
ENG 102	English Composition 2	
EMT 115	Emergency Medical Technology - Basic	10
FIRE 131	Fire Fighting - Tactics and Strategy	3
	Total Credits: 16	

## ALTERNATE - Fire Fighter Technology AAS Degree (continued)

### Second Year - Winter Semester

Course #	Course Title	Credits
FIRE 205	Fire Department Organization and Administration	3
FIRE 125	Building Construction for the Fire Service	3
HS 202	Introduction to Emergency Management	3
Elective	Select from list	2-5
	<b>Total Credits: 11-14</b>	

### Electives

Course #	Course Title	Credits
FIRE 128	Fire Fighting - Hydraulics and Water Supply	4
FIRE 136	Fire Protection Systems	3
FIRE 105	Fire Behavior and Combustion	3
FIRE 132	Fire Prevention	3
FIRE 221	Principles of Fire and Emergency Services Safety and Survival	3
FIRE 200	Fire and Arson Investigation	4
FIRE 207	Fire Company Officer	3
BIOL 236	Human Anatomy and Physiology	5
PE 202	Lifestyle Fitness - Wellness	2

**PROGRAM TOTAL 63-72 CREDITS**

## Fire and Emergency Services AAS Degree

Schoolcraft program code # AAS.00217

This program is designed with distance-learning, online schedule flexibility for students who currently possess firefighting certifications or will not require them. This emphasis is designed for students who seek promotions or desire a professional position in the public or private fire service sectors, and provides students a wide knowledge base of the fire service and public safety. Students in this emphasis will have the education necessary to work in administrative, preventive, investigative, and educational areas of the fire service.

Not all courses are offered each semester. Students should work with an academic advisor to develop a schedule that will work for them. Students planning to transfer should check the transfer institution's requirements/guides or discuss their options with an academic advisor. Number of credits may vary depending on the course selection.

Contact the Fire Technology office at 734-462-4305 for additional information.

### SAMPLE SCHEDULE OF COURSES

#### First Year - Fall Semester

Course #	Course Title	Credits
FIRE 101	Principles of Emergency Services	3
FIRE 105	Fire Behavior and Combustion	3
ENG 101	English Composition 1	3
Mathematics	General Education Mathematics course	3-4
	<b>Total Credits: 12-13</b>	

#### First Year - Winter Semester

Course #	Course Title	Credits
FIRE 132	Fire Prevention	3
Social Science	General Education Social Science course	3-4
Science	General Education Science course	3-4
	<b>BIOL 101 - General Biology</b> (recommended for students interested in EMT)	
HS 101	Introduction to Homeland Security	3
	<b>Total Credits: 12-14</b>	

#### First Year - Spring/Summer Session

Course #	Course Title	Credits
ENG 102	English Composition 2	3
Humanities	General Education Humanities course	3-4
	<b>Total Credits: 6-7</b>	



## Fire and Emergency Services AAS Degree (continued)

### Second Year - Fall Semester

Course #	Course Title	Credits
FIRE 136	Fire Protection Systems	3
CIS 120	Software Applications	3
FIRE 205	Fire Department Organization and Administration	3
FIRE 221	Principles of Fire and Emergency Services Safety and Survival	3
CJ 102	Organization and Administration of Law Enforcement Agencies	3
	<b>Total Credits: 15</b>	

### Second Year - Winter Semester

Course #	Course Title	Credits
FIRE 125	Building Construction for the Fire Service	3
FIRE 131	Fire Fighting - Tactics and Strategy	3
HS 202	Introduction to Emergency Management	3
Elective	Select one to two not previously taken	6-20
	<b>Total Credits: 15-29</b>	

### Electives

Course #	Course Title	Credits
CJ 210	Criminal Procedure	3
CJ 211	Criminal Law	3
FIRE 207	Fire Company Officer	3
FIRE 112	Fire Fighter 1 - Basic Fire Suppression	10
FIRE 124	Fire Academy	20
SOC 201	Principles of Sociology	3

**PROGRAM TOTAL 60-78 CREDITS**