

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.

SAMPLE SCHEDULE OF COURSES

First Year—Fall Semester

FIRE 112	Fire Fighter 1—Basic Fire Suppression	10
	Total Credits	10

First Year—Winter Semester

FIRE 119	Fire Fighter 2—Advanced Fire Suppression	10
	Total Credits	10

First Year—Spring Session

EMT 115	Emergency Medical Technology—Basic	10
	Total Credits	10

PROGRAM TOTAL 30 CREDITS

ALTERNATE

First Year—Fall Semester

FIRE 124	Fire Academy	20
	Total Credits	20

First Year—Winter Semester

EMT 115	Emergency Medical Technology—Basic	10
	Total Credits	10

PROGRAM TOTAL 30 CREDITS

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

Not all courses are offered each semester. Students should work with an academic advisor or counselor 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 or counselor. Number of credits may vary depending on the course selection.

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.

SAMPLE SCHEDULE OF COURSES

First Year—Fall Semester

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

First Year—Winter Semester

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

First Year—Spring Session

Social Science	<i>General Education Social Science course</i>	3-4
Humanities	<i>General Education Humanities course</i>	1-4
	Total Credits	4-8

Second Year—Fall Semester

English	<i>Select one</i>	3
ENG 116	Technical Writing	
ENG 102	English Composition 2	
EMT 115	Emergency Medical Technology—Basic	10
FIRE 131	Fire Fighting—Tactics & Strategy	3
	Total Credits	16

Second Year—Winter Semester

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

PROGRAM TOTAL 63-72 CREDITS

ALTERNATE

First Year—Fall Semester

FIRE 124	Fire Academy	20
	Total Credits	20

First Year—Winter Semester

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

First Year—Spring Session

Social Science	<i>General Education Social Science course</i>	3-4
Humanities	<i>General Education Humanities course</i>	1-4
	Total Credits	4-8

Second Year—Fall Semester

English	<i>Select one</i>	3
ENG 116	Technical Writing	
ENG 102	English Composition 2	
EMT 115	Emergency Medical Technology—Basic	10
FIRE 131	Fire Fighting—Tactics & Strategy	3
	Total Credits	16

Second Year—Winter Semester

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

PROGRAM TOTAL 63-72 CREDITS

Electives

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

Fire Fighter Technology AAS Degree (continued)

Not all courses are offered each semester. Students should work with an academic advisor or counselor 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 or counselor. Number of credits may vary depending on the course selection

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.

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

SAMPLE SCHEDULE OF COURSES

First Year—Fall Semester

FIRE 101	Principles of Emergency Services	3
FIRE 105	Fire Behavior & Combustion	3
ENG 101	English Composition 1	3
Mathematics	<i>General Education Mathematics course</i>	3-4
Total Credits		12-13

First Year—Winter Semester

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

First Year—Spring Session

ENG 102	English Composition 2	3
Humanities	<i>General Education Humanities course</i>	3-4
Total Credits		6-7

Second Year—Fall Semester

FIRE 136	Fire Protection Systems	3
CIS 120	Software Applications	3
FIRE 205	Fire Department Organization & Administration	3
FIRE 221	Principles of Fire & Emergency Services Safety & Survival	3
CJ 102	Organization & Administration of Law Enforcement Agencies	3
Total Credits		15

Second Year—Winter Semester

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

PROGRAM TOTAL 63-72 CREDITS

Electives

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

Not all courses are offered each semester. Students should work with an academic advisor or counselor 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 or counselor. Number of credits may vary depending on the course selection.