

## FIRE SCIENCE TECHNOLOGY

*Health Occupations Division*

### FIRE SCIENCE TECHNOLOGY

The **Fire Science Technology** program is designed to provide training and education to develop competent technicians in fire protection, prevention and administration. The program will also provide training and education for personnel of insurance companies and industries involved in fire protection and prevention. Another important function of the program is to enhance the training of paramedics and firefighters currently working in full-time and volunteer fire departments throughout the region.

Students will complete a core of courses designed to ensure they possess the base knowledge necessary in Fire Science Technology. Satisfactory completion of prescribed 42.5 semester credit hours will lead to a Diploma. An additional 18 semester credit hours of the general education requirements will result in an Associate of Applied Science Degree. The classes will be offered at night and on Saturdays on a part-time basis over a three-year period. Students whose goal is an Associate of Applied Science Degree should enroll in the general education classes before or during that time period.

#### Program Objectives

- Have knowledge of hazards and related safety practices associated with fire science technology.
- Perform tasks related to fire protection, prevention, and administration.
- Demonstrate an understanding of personal and work characteristics that contribute to effective job performance.
- Use effective communication skills appropriate to the fire science industry.
- Apply the theory of fire science to specific jobs using critical thinking/reasoning skills and the ability to work independently.
- Use mathematical data and reasoning skills in relation to fire science technology.
- Prepare for certification/licensing.

#### Employment Opportunities

Employment opportunities include city, town, and rural salaried fire departments, government agencies, construction firms, insurance companies, and hazardous materials handling. While not a salaried position, many communities depend on volunteer firefighters solely or in coordination with the salaried fire department personnel.

#### Suggested Electives

Human Relations, Introduction to Business, Spanish, Sign Language, Supervisory Management, aerobic and anaerobic physical education classes.

### ASSOCIATE OF APPLIED SCIENCE DEGREE FIRE SCIENCE TECHNOLOGY

#### Suggested Sequence of Study

##### Refer to Semester Schedule for Course Offerings

<b>Fall Semester 1st year</b>		<b>Credit Hours</b>
FRST 1110	Introduction to Firemanship	3
FRST 1120	Fire Service Science	3
HLTH 1510	EMT-Basic*	8

<b>Spring Semester 1st year</b>		<b>Credit Hours</b>
FRST 1215	Mech System for Building/ Blueprint Reading	4
FRST 1220	Fund of Fire Prevention	3

<b>Fall Semester 2nd year</b>		<b>Credit Hours</b>
FRST 1310	Fire Protection Hydraulics	4
FRST 1320	Essentials of Electricity	2
HLTH 1510	EMT-Basic (8 cr hrs)*	

<b>Spring Semester 2nd year</b>		<b>Credit Hours</b>
FRST 1410	Hazardous Materials Awareness/ Survival	3
FRST 1420	Fire Protection Systems	3

<b>Fall Semester 3rd year</b>		<b>Credit Hours</b>
FRST 1510	Fire Fighter I	4
FRST 1520	Fire Fighting Tactics	2
HLTH 1510	EMT-Basic (8 cr hrs)*	

<b>Spring Semester 3rd year</b>		<b>Credit Hours</b>
FRST 1610	Fire Investigation	3
HLTH 1110	CPR Rescuer	0.5

<b>Fire Science Program Credit Hours</b>	<b>42.5</b>
<b>General Education Requirements***</b>	<b>18</b>
<b>A.A.S. Degree Total</b>	<b>60.5</b>

\*HLTH 1510 EMT-Basic begins in August and ends the following April/May. Students may enroll in the class during any fall semester.

\*\* Students may enroll in the program during any semester.

<b>***General Education Requirements</b>	<b>Credit Hours</b>
ENGL 1010 Expository Writing I	3
Oral Communication	3
Social Science	3
Math/Science	3
BSAD 1010 Personal & Professional Dev	3
FRST 1630 Firefighter Physical Fitness & Conditioning	1
Computer Class(es)	2

### FIRE SCIENCE TECHNOLOGY DIPLOMA 42.5 CREDIT HOURS

Students will be awarded a Diploma upon satisfactorily completing the specific program requirements listed above.