

# Fire Science Technology

## CHEMISTRY/PHYSICS DEPARTMENT

### Associate in Applied Science (A.A.S.) Degree

This program meets the continuing education needs of professional and volunteer firefighters. It enables firefighters to perform their current duties more effectively and to prepare for greater levels of responsibility within the fire service system.

#### **Can students who major in Fire Science Technology transfer to a four-year college or university?**

Articulation agreements with public and private institutions offer students who earn the A.A.S. degree the opportunity to transfer all of their coursework to the four-year institution. Students in specialized programs, or who earn an A.A.S. degree should discuss the transfer process with an advisor.

#### **What will students learn in Fire Science Technology?**

Students develop skills and knowledge in protection systems, hydraulics, hazardous materials, building construction and codes, departmental organization, investigation, fire ground strategy and tactics, and fire prevention and inspection.

#### **Are there any requirements that must be satisfied before taking courses in the major?**

Algebra I is a prerequisite for all majors. Algebra I competency may be verified with a passing score on the College's placement test or completion of the appropriate course. Students must also have a grade of "C" or better in one year of high school laboratory chemistry.

#### **How long will it take to complete this degree?**

Fire Science courses are offered exclusively in the evening. Once students complete developmental coursework (if needed), the degree can be completed in two years of full-time study. They can shorten the amount of time by taking courses in the summer and winter sessions.

#### **Questions?**

**Contact Name:** Dr. Diane Trainor, department chair

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**Department Web:** <http://www.middlesexcc.edu/academi/chm>

**FIRE SCIENCE TECHNOLOGY DEGREE**  
**Associate in Applied Science (A.A.S.) Degree - FIRE.AAS**

<u>Courses</u>	<u>Credits</u>	<u>Requisites/Comments</u>
<i>Semester I</i>		
FSC 103 Introduction to Fire Protection	3	
SCI 207 Principles of Chemistry & Physics for Fire Science	4	One year of high school laboratory chemistry or CHM 010.
ENG 121 English Composition I	3	A passing score on the College's placement test or a "C" or better in ENG 010.
MAT 107 Mathematics I	3	Appropriate score on the College's placement test, MAT 013 or MAT 013A and MAT 013B, or departmental approval.
____ Physical/Health Education Elective	1-3	
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<i>Semester II</i>		
CSC 105 Computer Applications and Systems	3	CSC 105 or higher
<b>ENG 122 English Composition II</b>	<b>3</b>	<b>A grade of "C" or better in ENG 121</b>
MAT 108 Mathematics II	3	MAT 107 or equivalent With advisor approval students may select a higher level mathematics sequence.
FSC 204 Building Construction	3	FSC 103 or permission of department chair
____ General Education Humanities Elective (GE HUM)	3	
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<i>Semester III</i>		
FSC 206 Fire Strategy and Tactics	3	FSC 103 or permission of department chair
FSC 207 Hazardous Materials for the Fire Service	3	See department chair
FSC 209 Fire Suppression and Detection Systems	3	FSC 103 or permission of department chair
POS 201 United States State and Local Government	3	
<b>FSC 214 Rescue Company Operations</b>	<b>3</b>	
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<i>Semester IV</i>		
FSC 210 Fire and Arson Investigation	3	FSC 103 or permission of department chair
FSC 212 Fire Prevention and Inspection	3	FSC 103 or permission of department chair
MGT 200 Principles of Supervision	3	MGT 200 is offered in the spring semester only
<b>SCI 104 Technical Communications</b>	<b>1</b>	
____ General Education Humanities Elective (GE HUM)	3	
OR		
General Education Social Science Elective (GE SS)	3	
____ Elective	3	Recommended EMT 101 or EMP 100
<b>Electives:</b>		
<b>EMT 101 Emergency Medical Technician</b>	<b>3</b>	
<b>EMP 100 Introduction to Emergency Management</b>	<b>3</b>	

**Total Credits: 60-62**

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