# Associate in Applied Science in Fire Science

## Program Overview
Upon completion of this degree, students will have enhanced their firefighting techniques and developed a better understanding of building materials and fire prevention.

## To Learn More About This Program
Contact Niles campus Student Services at 800-456-8675, ext. 4811, or niles@swmich.edu.

## Degree Requirements
To earn this degree, students must have an overall GPA of 2.0 or higher, complete a minimum of 60 credit hours, and fulfill the course requirements of the program listed below. Students are permitted to complete a higher-level math course than shown below. Each general education course, prerequisite course, internship, and capstone course must be completed with a final grade of C or better.

## Course Offerings
Students pursuing an Associate in Applied Science in Fire Science may complete select courses for this program online. Courses within this program may also be offered on-site at our Dowagiac or Niles campus.

### General Education Courses

#### COMMUNICATIONS

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 103 or ENGL 103W</td>
<td>Freshman English 2 (or with workshop)</td>
<td>3 to 4 credits</td>
</tr>
<tr>
<td>SPEE 104</td>
<td>Intro to Human Communication</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

#### MATHEMATICS

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 150</td>
<td>Statistics</td>
<td>4 credits</td>
</tr>
</tbody>
</table>

#### NATURAL SCIENCE

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 100</td>
<td>Fundamentals of Chemistry</td>
<td>4 credits</td>
</tr>
</tbody>
</table>

#### SOCIAL SCIENCE

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POSC 201</td>
<td>American Government</td>
<td>3 credits</td>
</tr>
<tr>
<td>PSYC 101</td>
<td>General Psychology</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

### Major-Specific Required Courses

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 120</td>
<td>Educational Exploration and Planning</td>
<td>1 credit</td>
</tr>
<tr>
<td>BUSI 214</td>
<td>Business Communications</td>
<td>3 credits</td>
</tr>
<tr>
<td>FISC 100</td>
<td>Intro to Emergency Services and Firefighter 1</td>
<td>6 credits</td>
</tr>
<tr>
<td>FISC 101</td>
<td>Principles of Emergency Services and Firefighter 2</td>
<td>6 credits</td>
</tr>
<tr>
<td>FISC 105</td>
<td>Fire Behavior and Combustion</td>
<td>3 credits</td>
</tr>
<tr>
<td>FISC 111</td>
<td>Building Construction</td>
<td>3 credits</td>
</tr>
<tr>
<td>FISC 200</td>
<td>Principles of Firefighter Safety and Survival</td>
<td>3 credits</td>
</tr>
<tr>
<td>FISC 201</td>
<td>Fire Prevention and Community Risk Reduction</td>
<td>3 credits</td>
</tr>
<tr>
<td>FISC 214</td>
<td>Fire Service Community Relations</td>
<td>3 credits</td>
</tr>
<tr>
<td>FISC 216</td>
<td>Leadership On and Off the Fireground</td>
<td>3 credits</td>
</tr>
<tr>
<td>FISC 218</td>
<td>Fire Protection Systems</td>
<td>3 credits</td>
</tr>
<tr>
<td>HEED 131</td>
<td>Emergency Medical Technician 1</td>
<td>5 credits</td>
</tr>
<tr>
<td>HEED 132</td>
<td>Emergency Medical Technician 2</td>
<td>5 credits</td>
</tr>
</tbody>
</table>

**Total Program Credits: 67**
Additional Notes About the A.A.S. in Fire Science Program

- A prerequisite course may be needed prior to enrollment in some courses within this program. Specific prerequisite requirements are listed in the Course Description section in the Course Catalog. A summary of the prerequisites is listed below in the Example Course Sequence section.
- This program as outlined does not meet MTA requirements. Students would need to complete another natural science course and two different humanities courses. If interested in the MTA, students should seek help from an advisor for course selection.
- The 12 credits of FISC 100 and 101 are available to students who present a valid Firefighter 1 and 2 certificate from the Michigan Fire Fighters Training Council or the Indiana Public Safety Institute with Hazmat training.
- Courses taken out of sequence may delay a student’s ability to complete the program in a timely manner. Please consult your advisor regularly.
- Each student should submit a graduation application at least one full semester before they plan to graduate.
- This program is subject to change. Students should consult with their advisor for program updates.

Example Course Sequence

The following is a sample of a semester-by-semester approach to completing this program.

**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
<th>Prerequisites (Minimum Grade of C Required)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 120 Educational Exploration and Planning</td>
<td>1 credit</td>
<td>ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or test score (concurrent enrollment in ENGL 115 allowed)</td>
</tr>
<tr>
<td>ENGL 103 or ENGL 103W Freshman English 2 (or with workshop)</td>
<td>3 to 4 credits</td>
<td>ENGL 103: ENGL 115 or test score (concurrent enrollment allowed)</td>
</tr>
<tr>
<td>CHEM 100 Fundamentals of Chemistry</td>
<td>4 credits</td>
<td>MATH 101, MATH 102, or test score (concurrent enrollment allowed); ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or test score (concurrent enrollment in ENGL 115 allowed)</td>
</tr>
<tr>
<td>FISC 100 Intro to Emergency Services and Firefighter 1</td>
<td>6 credits</td>
<td>None</td>
</tr>
<tr>
<td>FISC 105 Fire Behavior and Combustion</td>
<td>3 credits</td>
<td>None</td>
</tr>
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</table>

**SECOND SEMESTER**

<table>
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<tr>
<th>Courses</th>
<th>Credits</th>
<th>Prerequisites (Minimum Grade of C Required)</th>
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<tbody>
<tr>
<td>FISC 101 Principles of Emergency Services and Firefighter 2</td>
<td>6 credits</td>
<td>FISC 100</td>
</tr>
<tr>
<td>FISC 111 Building Construction</td>
<td>3 credits</td>
<td>None</td>
</tr>
<tr>
<td>MATH 150 Statistics</td>
<td>4 credits</td>
<td>MATH 101, MATH 102, or test score</td>
</tr>
<tr>
<td>SPEE 104 Intro to Human Communication</td>
<td>3 credits</td>
<td>ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or test score (concurrent enrollment in ENGL 115 allowed)</td>
</tr>
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**THIRD SEMESTER**

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<tr>
<th>Courses</th>
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<th>Prerequisites (Minimum Grade of C Required)</th>
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</thead>
<tbody>
<tr>
<td>BUSI 214 Business Communications</td>
<td>3 credits</td>
<td>ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or test score (concurrent enrollment in ENGL 115 allowed)</td>
</tr>
<tr>
<td>FISC 200 Principles of Firefighter Safety and Survival</td>
<td>3 credits</td>
<td>FISC 100; FISC 101</td>
</tr>
<tr>
<td>FISC 201 Fire Prevention and Community Risk Reduction</td>
<td>3 credits</td>
<td>FISC 100; FISC 101</td>
</tr>
<tr>
<td>HEED 131 Emergency Medical Technician 1</td>
<td>5 credits</td>
<td>ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or test score (concurrent enrollment in ENGL 115 allowed)</td>
</tr>
<tr>
<td>POSC 201 American Government</td>
<td>3 credits</td>
<td>ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or test score (concurrent enrollment in ENGL 115 allowed)</td>
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</table>

**FOURTH SEMESTER**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
<th>Prerequisites (Minimum Grade of C Required)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FISC 214 Fire Service Community Relations</td>
<td>3 credits</td>
<td>FISC 100; FISC 101</td>
</tr>
<tr>
<td>FISC 216 Leadership On and Off the Fireground</td>
<td>3 credits</td>
<td>FISC 100; FISC 101</td>
</tr>
<tr>
<td>FISC 218 Fire Protection Systems</td>
<td>3 credits</td>
<td>FISC 100; FISC 101</td>
</tr>
<tr>
<td>HEED 132 Emergency Medical Technician 2</td>
<td>5 credits</td>
<td>Successful completion of both the practical and written components of HEED 131</td>
</tr>
<tr>
<td>PSYC 101 General Psychology</td>
<td>3 credits</td>
<td>ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or test score (concurrent enrollment in ENGL 115 allowed)</td>
</tr>
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