Associate in Applied Science in Engineering Technology

Program Overview
Upon completion of this degree, students will have developed a foundational knowledge in science, mathematics, and technology in preparation to transfer to four-year institutions for further study in Engineering Technology.

*Note: If you are interested in Engineering (Mechanical, Electrical, Chemical, Civil, Environmental, etc.) please follow the Associate in Science in Science, Engineering, and Math Professional degree program.

To Learn More About This Program
Contact Andrew Dohm at 269-782-1255 or adohm@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 Engineering Technology 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

<table>
<thead>
<tr>
<th>COMMUNICATIONS</th>
<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>
<td></td>
</tr>
<tr>
<td>SPEE 104</td>
<td>Intro to Human Communication</td>
<td>3 credits</td>
<td></td>
</tr>
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<table>
<thead>
<tr>
<th>MATHEMATICS</th>
<th>Course ID</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 130</td>
<td>Precalculus Mathematics</td>
<td>5 credits</td>
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</table>

<table>
<thead>
<tr>
<th>NATURAL SCIENCE</th>
<th>Course ID</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 101</td>
<td>General Chemistry 1</td>
<td>5 credits</td>
<td></td>
</tr>
<tr>
<td>PHYS 101</td>
<td>Introductory Physics 1</td>
<td>5 credits</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SOCIAL SCIENCE</th>
<th>Course ID</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 202</td>
<td>Microeconomics</td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>POSC 201</td>
<td>American Government</td>
<td>3 credits</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HUMANITIES</th>
<th>Course ID</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUMA 210</td>
<td>Introduction to Non-Western Civilization</td>
<td>4 credits</td>
<td></td>
</tr>
<tr>
<td>HIST 102</td>
<td>Western Civilization 2</td>
<td>4 credits</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Major-Specific Required Courses</th>
<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>
<td></td>
</tr>
<tr>
<td>CADD 103</td>
<td>Blueprint Reading/Engineering Graphics I</td>
<td>4 credits</td>
<td></td>
</tr>
<tr>
<td>INTE 126</td>
<td>Intro to Manufacturing Systems</td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>ISYS 110</td>
<td>Introduction to Computer Technology</td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>MATH 141</td>
<td>Analytical Geometry and Calculus 1</td>
<td>5 credits</td>
<td></td>
</tr>
<tr>
<td>PHED 103</td>
<td>Life Wellness</td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>PHYS 102</td>
<td>Introductory Physics 2</td>
<td>5 credits</td>
<td></td>
</tr>
</tbody>
</table>

Total Program Credits: 59
(Need 60 credits to graduate)
Additional Notes About the A.A.S. in Engineering Technology

- This degree is designed to transfer into three different bachelor’s degrees at Western Michigan University: Engineering Design Technology (EDT), Manufacturing Engineering Technology (MFT), or Engineering Management Technology (UEM).
- 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 meets MTA requirements.
- This program may not provide a student with all 60 credits needed to earn a degree. Students may need to take additional courses to reach 60 total credits.
- 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>ISYS 110 Introduction to Computer Technology</td>
<td>3 credits</td>
<td>None</td>
</tr>
<tr>
<td>MATH 130 Precalculus Mathematics</td>
<td>5 credits</td>
<td>MATH 127 or test score</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>
</tr>
<tr>
<td>ENGL 103 or ENGL 103W Freshman English 2 (or</td>
<td>3 to 4 credits</td>
<td>ENGL 103: ENGL 115 or test score (concurrent enrollment allowed)</td>
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<td>with workshop)</td>
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### SECOND SEMESTER

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<th>Prerequisites (Minimum Grade of C Required)</th>
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<tbody>
<tr>
<td>MATH 141 Analytical Geometry Calculus 1</td>
<td>5 credits</td>
<td>MATH 130 or test score</td>
</tr>
<tr>
<td>CHEM 101 General Chemistry 1</td>
<td>5 credits</td>
<td>MATH 127 or test score (concurrent enrollment allowed); CHEM 100, or one year of high school chemistry with</td>
</tr>
<tr>
<td>HUMA 210 Introduction to Non-Western Civilization</td>
<td>4 credits</td>
<td>minimum grade of B taken within the last 5 years, or test score; ENGL 115, ENGL 103W, ENGL 103, ENGL 104,</td>
</tr>
<tr>
<td>PHED 103 Life Wellness</td>
<td>3 credits</td>
<td>or test score (concurrent enrollment in ENGL 115 allowed)</td>
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<tr>
<td>PHYS 101 Introductory Physics 1</td>
<td>5 credits</td>
<td>MATH 130 or test score</td>
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<tr>
<td>INTE 126 Intro to Manufacturing Systems</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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<tr>
<td>CADD 103 Blueprint Reading/Engineering Graphics I</td>
<td>4 credits</td>
<td>None</td>
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### FOURTH 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>PHYS 102 Introductory Physics 2</td>
<td>5 credits</td>
<td>PHYS 101</td>
</tr>
<tr>
<td>ECON 202 Microeconomics</td>
<td>3 credits</td>
<td>None (concurrent enrollment in ECON 201 not recommended)</td>
</tr>
<tr>
<td>HIST 102 Western Civilization 2</td>
<td>4 credits</td>
<td>ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or test score (concurrent enrollment in ENGL 115 allowed)</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>
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