

# 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](mailto: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

### COMMUNICATIONS

Course ID	Course	Credits
ENGL 103 or ENGL 103W	Freshman English 2 (or with workshop)	3 to 4 credits
SPEE 104	Intro to Human Communication	3 credits

### MATHEMATICS

Course ID	Course	Credits
MATH 130	Precalculus Mathematics	5 credits

### NATURAL SCIENCE

Course ID	Course	Credits
CHEM 101	General Chemistry 1	5 credits
PHYS 101	Introductory Physics 1	5 credits

### SOCIAL SCIENCE

Course ID	Course	Credits
ECON 202	Microeconomics	3 credits
POSC 201	American Government	3 credits

### HUMANITIES

Course ID	Course	Credits
HUMA 210	Introduction to Non-Western Civilization	4 credits
HIST 102	Western Civilization 2	4 credits

### Major-Specific Required Courses

Course ID	Course	Credits
EDUC 120	Educational Exploration and Planning	1 credit
CADD 103	Blueprint Reading/Engineering Graphics I	4 credits
INTE 126	Intro to Manufacturing Systems	3 credits
ISYS 110	Introduction to Computer Technology	3 credits
MATH 141	Analytical Geometry and Calculus 1	5 credits
PHED 103	Life Wellness	3 credits
PHYS 102	Introductory Physics 2	5 credits

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

Courses	Credits	Prerequisites (Minimum Grade of C Required)
EDUC 120 Educational Exploration and Planning	1 credit	ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or test score (concurrent enrollment in ENGL 115 allowed)
ISYS 110 Introduction to Computer Technology	3 credits	None
MATH 130 Precalculus Mathematics	5 credits	MATH 127 or test score
POSC 201 American Government	3 credits	ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or test score (concurrent enrollment in ENGL 115 allowed)
ENGL 103 or ENGL 103W Freshman English 2 (or with workshop)	3 to 4 credits	ENGL 103W: Test score ENGL 103: ENGL 115 or test score (concurrent enrollment allowed)

### SECOND SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of C Required)
MATH 141 Analytical Geometry Calculus 1	5 credits	MATH 130 or test score
CHEM 101 General Chemistry 1	5 credits	MATH 127 or test score (concurrent enrollment allowed); CHEM 100, or one year of high school chemistry with minimum grade of B taken within the last 5 years, or test score; ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or test score (concurrent enrollment in ENGL 115 allowed)
HUMA 210 Introduction to Non-Western Civilization	4 credits	ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or test score (concurrent enrollment in ENGL 115 allowed)
PHED 103 Life Wellness	3 credits	None

### THIRD SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of C Required)
PHYS 101 Introductory Physics 1	5 credits	MATH 130 or test score
INTE 126 Intro to Manufacturing Systems	3 credits	ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or test score (concurrent enrollment in ENGL 115 allowed)
CADD 103 Blueprint Reading/Engineering Graphics I	4 credits	None

### FOURTH SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of C Required)
PHYS 102 Introductory Physics 2	5 credits	PHYS 101
ECON 202 Microeconomics	3 credits	None (concurrent enrollment in ECON 201 not recommended)
HIST 102 Western Civilization 2	4 credits	ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or test score (concurrent enrollment in ENGL 115 allowed)
SPEE 104 Intro to Human Communication	3 credits	ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or test score (concurrent enrollment in ENGL 115 allowed)