

# Associate in Applied Science in Industrial Technology

## Program Overview

Upon completion of this degree, students will have marketable welding skills along with industrial robot programming, quality control, business, and computer technology skills.

## To Learn More About This Program

Contact Dan Miles at 269-687-5673 or [dmiles01@swmich.edu](mailto:dmiles01@swmich.edu).

## Degree Requirements

To earn this degree, students must have an overall GPA of 2.0 or higher, fulfill the course requirements of the program listed below, complete a minimum of 60 total credit hours, and have previously completed one of the following 30-34 credit hour certificate programs: Construction Trades Green Technology, Robotics, or Welding Technology. Each course listed under the General Education Courses section below must be completed with a minimum grade of C. Additionally, each 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 Industrial 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
ENGL 104	Freshman English 3	3 credits
SPEE 102 or SPEE 104	Fundamentals of Public Speaking or Intro to Human Communication	3 credits

### MATHEMATICS

Course ID	Course	Credits
MATH 101 or MATH 102	Introductory Algebra or Mathematical Literacy	4 credits

**Total Program Credits: 28  
(Need 60 credits to graduate)**

### Major-Specific Required Courses

Course ID	Course	Credits
EDUC 120	Educational Exploration and Planning	1 credit
ISYS 110	Introduction to Computer Technology	3 credits
INTE 227	Industrial Robotics	2 credits
INTE 255	Internship	3 credits

### Complete 6 credits from the list below

Course ID	Course	Credits
CADD 101	Introduction to CAD/AutoCAD	4 credits
Any CONS	Construction Trades Courses Not Previously Completed	Varies
Any ELEC	Robotics Courses Not Previously Completed	Varies
Any INTE	Industrial Technology Courses Not Previously Completed	Varies
Any WELD	Welding Technology Courses Not Previously Completed	Varies
PHED 103	Life Wellness	3 credits

## Additional Notes About the A.A.S. in Industrial Technology 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 interested in satisfying the MTA need a higher-level math course, two natural science courses, two social science courses, and two humanities courses. To ensure proper course selection for MTA requirements, please see your advisor frequently.
- This program requires students to have previously earned a certificate in either Construction Trades Green Technology, Robotics, or Welding Technology.
- Students may need to complete additional courses to earn 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 he/she plans 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. The certificate program a student chooses will make up the first two semesters of this degree program.

### THIRD 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 scores (concurrent enrollment in ENGL 115 allowed)
ISYS 110 Introduction to Computer Technology	3 credits	None
ENGL 103 or ENGL 103W Freshman English 2 (or with workshop)	3 to 4 credits	ENGL 103W: test scores ENGL 103: ENGL 115 or test scores (concurrent enrollment allowed)
SPEE 102 Fundamentals of Public Speaking or SPEE 104 Intro to Human Communication	3 credits	SPEE 102: None SPEE 104: ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or test scores (concurrent enrollment in ENGL 115 allowed)
Program Elective	3 to 4 credits	See Course Description for details

### FOURTH SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of C Required)
ENGL 104 Freshman English 3	3 credits	ENGL 103 or 103W
INTE 227 Industrial Robotics	2 credits	ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or test scores (concurrent enrollment in ENGL 115 allowed)
INTE 255 Internship	3 credits	Completion of 30 technology credits with a minimum grade of C and permission of the program advisor
MATH 101 Introductory Algebra or MATH 102 Mathematical Literacy	4 credits	MATH 101: MATH 098, MATH 102, or test score MATH 102: MATH 098 or test score
Program Elective	3 to 4 credits	See Course Description for details