

Associate in Applied Science in Automotive Technology

Program Outcomes

Upon completion of this degree, students will have experience in diagnosing and fixing many common automotive problems. This program is certified by the National Institute for Automotive Excellence for ASE Master Technician.

Employment Opportunities or Additional Educational Options

With this degree, students can prepare to seek employment as automotive service technicians in various settings, such as automobile dealerships, independent service facilities, franchised repair facilities, and specialty shops.

To Learn More About This Program

Contact Jeff Robson at 269-783-2967 or jrobson01@swmich.edu or Kyle Schrock at 269-783-2123 or kschrock@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.

General Education Courses

COMMUNICATIONS

Course ID	Course	Credits
ENGL 103 or ENGL 103W	Freshman English 2 (or with workshop)	3 to 4 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

Major-specific Required Courses

Course ID	Course	Credits
EDUC 120	Educational Exploration and Planning	1 credit
AUTO 103	Intro to Automotive Technology	3 credits
AUTO 116	Brake Systems	3 credits
AUTO 119	Electrical 1	3 credits
AUTO 122	Steering Suspension Systems	3 credits
AUTO 131	Manual Transmissions	3 credits
AUTO 147	Engine Repair 1	3 credits
AUTO 148	Engine Repair 2	3 credits
AUTO 216	Heating and Air Conditioning	3 credits
AUTO 222	Electrical 2	3 credits
AUTO 223	Electrical 3	3 credits
AUTO 227	Engine Performance 1	3 credits
AUTO 228	Engine Performance 2	3 credits
AUTO 229	Engine Performance 3	3 credits
AUTO 232	Advanced Brakes & Chassis Systems	3 credits
AUTO 234	Automatic Transmissions	3 credits
AUTO 246	Alternative Fuel and Hybrid Electric Vehicles	3 credits
AUTO 255	Internship	5 credits
BUSI 240	Professionalism Workshop	1 credit

Total Program Credits: 65

Additional Notes About the A.A.S. in Automotive 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 are listed below in the Example Course Sequence.
- This program as outlined does not meet MTA requirements. Students interested in meeting MTA requirements would need a higher-level math course, two different natural science courses (one with a lab), two different social science courses, and two different humanities courses. If interested in the MTA, students should seek help from an advisor for course selection.
- Students who have completed the A.A.S. Automotive Technology program have also met the requirements for the Certificate in Automotive Technology.
- 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.

FIRST SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of "C" Required)
EDUC 120 Educational Exploration and Planning	1 credit	ENGL 115 or test score (concurrent enrollment allowed)
ENGL 103 or ENGL 103W Freshman English 2 (or with workshop)	3 to 4 credits	ENGL 115 or test score (concurrent enrollment allowed)
AUTO 103 Intro to Automotive Tech	3 credits	None
AUTO 119 Electrical 1	3 credits	None
AUTO 116 Brake Systems	3 credits	None
AUTO 122 Steering and Suspension Systems	3 credits	None

SECOND SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of "C" Required)
AUTO 216 Heating and Air Conditioning	3 credits	AUTO 103
AUTO 147 Engine Repair 1	3 credits	AUTO 103
AUTO 222 Electrical 2	3 credits	AUTO 103 and AUTO 119
MATH 101 Introductory Algebra or MATH 102 Mathematical Literacy	4 credits	MATH 098 or test score
AUTO 227 Engine Performance 1	3 credits	AUTO 103 and AUTO 119

THIRD SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of "C" Required)
BUSI 240 Professionalism Workshop	1 credit	None
AUTO 228 Engine Performance 2	3 credits	AUTO 227
AUTO 148 Engine Repair 2	3 credits	AUTO 147
AUTO 131 Manual Transmissions	3 credits	AUTO 103
AUTO 232 Advanced Brakes and Chassis Systems	3 credits	AUTO 103; AUTO 116; AUTO 119; AUTO 122
SPEE 102 Fund of Public Speaking or SPEE 104 Intro to Human Comm	3 credits	SPEE 102: None SPEE 104: ENGL 115 or test score (concurrent enrollment allowed)

FOURTH SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of "C" Required)
AUTO 229 Engine Performance 3	3 credits	AUTO 228
AUTO 246 Alternative Fuels and Hybrid Electric Vehicles	3 credits	AUTO 222
AUTO 234 Automatic Transmissions	3 credits	AUTO 103
AUTO 223 Electrical 3	3 credits	AUTO 222
AUTO 255 Internship	5 credits	Completion of Automotive Certificate program courses and recommendation of program advisor

