

2021-2022 Automotive Technology Success Indicators

Academic Skills

Reading	Grade-level reading ability suggested; frequent use of computer programs to look up vehicle diagnostic information and specifications.
Writing	Daily log books are completed and graded for content, which includes the daily vocabulary terms, classroom activities, and lab activities.
Math	Basic math skills such as addition, subtraction, division, and multiplication are needed. For more information connect to the following website: https://www.asealliance.org/wp-content/uploads/2016/05/Math-Common-Core.pdf
Science	Familiarity with basic physics and Ohm's Law is helpful.
Memorization/Notetaking	Lecture notes and PowerPoints are emailed to each student's MACC email. Students are encouraged to take their own additional notes. Tests are given after each segment and contain up to 55 questions. Tests are taken from our ASE Education Foundation accredited textbooks; the Fundamentals of Automotive Technology and the Modern Automotive Technology. The questions are in the format of ASE certification testing.

Physical Skills

Physical Requirements	Ability to lift objects up to 40 -50 lbs.; a lot of bending and movement is required.
Clothing/Special Equipment	Full length pants, shirts that cover arms to elbows, and proper footwear (closed toe/heel boots or shoes) required. One pair of safety glasses are provided at the beginning of the year and required to be worn at all times. Additional safety glasses are available to purchase. Lockers are provided to keep personal items in, as well as a change of clothes if desired.
Fine Motor Skills/Coordination	Ability to work with small fasteners; ability to read fine print; requires work in confined/tight spaces
Spatial Awareness	May often be required to move equipment, machines, move vehicles on hoists, and raise vehicles on hoists.

Other Requirements

Medical Requirements	Students will be in settings with continual exposure to fumes, heat, torch, and lights; may affect allergies; chemicals, such as oil, may react with the skin. Students will spend a great deal of time standing on a cement floor while working under, on, and in vehicles to fulfill required tasks in the lab.
Related Interests	Interest in automotive fields such as repair, sales, parts, management, and design.
Transportation	Transportation to and from the MACC may be necessary for field trips. Typically, we will go on two per year.
Certification/Licensure	Seniors may earn the opportunity to take the ASE Entry-Level certification tests. Students who have a B average or better in both their overall grade and test grade will be eligible to take the Michigan Mechanics certification tests at no charge to them.

Homework	There is ample time to complete required work during school hours for those who use their time wisely.
Classroom Instructional Methods/Time	Lecture and PowerPoint presentations; significant time spent in lab working on required tasks

Additional Information

This ASE Education certified program provides an introductory study of the function, construction, operation, testing, diagnosing, and servicing of the automotive systems of the eight areas of automotive maintenance and light repair. Two of the eight areas are covered each semester. Completion of the eight areas is a two-year program.

A demonstrated pattern of regular attendance is critical to student success. This class is strongly oriented as a hands-on program and requires frequent attendance. Students are given the opportunity to perform skills in a real-world work environment.

Articulated college credit is available.