

COURSE TITLE **Automotive Technology 2022/2023**

INSTRUCTOR Randy Scheese
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CLASS MEETING TIMES 2022 - 2023 Class Schedule
Monday – Friday 8:00 am – 10:30 am
Monday – Friday 12:00 pm – 2:30 pm

TEXTBOOK *Modern Automotive Technology* ninth edition
James E Duffy
ISBN: 978-1-63126-375-0

OTHER RESOURCES *Modern Automotive Technology Workbook* ninth edition
James E Duffy
ISBN: 978-1-63126-376-7

REQUIRED MATERIALS Pen/Pencil, 1 pair of safety glasses are provided, proper clothing (long pants and preferably leather shoes)

COURSE DESCRIPTION

This class will give students a theory and hands on approach in the field of automotive service. Each day we will begin in the classroom and then the bulk of the period will be spent in the lab doing hands-on tasks working on vehicles. Students may work on school vehicles, their own or parents’ vehicles, and we also do customer vehicle repairs. This is a two year program, students may choose to attend one or both years. Each student who wishes to attend the second year will be evaluated on their first year performance. The Instructor will recommend to allow the student to return or give evidence why the student should not return. The Principal will make the final decision.

ACADEMIC CREDITS

Students who take the Automotive Technology program can earn credits for the fourth year required math credit and may substitute this CTE two year program in place of a second year of foreign language. Local district policy and other circumstances may limit or expand the use of CTE classes in place of other credit requirements.

POSTSECONDARY CONNECTIONS

The MACC offers students with a B or better each semester the opportunity to earn articulated credits at several community colleges and universities around the state. Automotive Technology offers articulated credits at: Alpena Community College, Baker College, Davenport College, Delta College, Ferris State University, Grand Rapids Community College, Mid Michigan Community College, University of Northwestern Ohio and Washtenaw Community College. Additional information can be found on our website or by talking with the instructor.

CERTIFICATIONS/LICENSURES

ASE Student Certification Tests - Seniors who are classified as a completer or concentrator and have a C average or better will take these tests.

State of Michigan Mechanics Tests - The MACC will pay the testing fee for students who have at least a 90% attendance record for each segment, a B average in each segment, and a B testing average in each segment. Students may elect to pay for the segment State test if they do not meet the aforementioned criteria. A segment review led by the instructor is mandatory for each student who elects to take the segment State test.

WORK-BASED LEARNING OPPORTUNITIES

The auto class normally will go on class trips to industry related job sites for guided tours of facilities, operations, job requirements, etc. Due to covid related restrictions, these trips have been canceled.

When there are auto repair related work-based learning opportunities, the Instructor will decide if there is a second year student who would qualify for the position. Qualifications would include, but not be limited to, student transportation ability, students' level of competence for a job position, if the student is a self-starter, etc.

SAFETY TRAINING

At the beginning of the fall semester, all students will be involved in safety training which includes, but is not limited to, personal protective attire and equipment (eye protection, gloves, shoes, hearing protection, etc.), equipment safety, jack and jack stand safety, hoist safety, safe use of tools, etc. It is required that all students pass a safety test before they are allowed to work in the lab.

STUDENT LEADERSHIP OPPORTUNITIES

Students will each work in a shop foreman roll delegating work and assisting the instructor while working in the lab. Students working in the lab may work in teams and through collaboration will identify problems along with repairs.

OBJECTIVES:

A. SAFETY, HEALTH AND ENVIRONMENTAL

- a. Demonstrate shop and personal safety skills as recognized by industry standards

B. TOOLS AND EQUIPMENT

- a. Demonstrate knowledge and skill in the use of automotive tools and equipment according to manufacturer's recommendations

C. REQUIRED SUPPLEMENTAL TASKS

- a. Demonstrate automotive industry standards and shop policies regarding customer vehicles.

D. ENGINE REPAIR

- a. Demonstrate the knowledge of engine repair and related service information.

E. AUTOMATIC TRANSMISSION AND TRANSAXLE

- a. Demonstrate an understanding of vehicle automatic transmissions, transaxles and drive train components and service information.

F. MANUAL DRIVETRAIN AND AXLES

- a. Demonstrate an understanding of vehicle manual transmissions, transaxles and drive train components and service information.

J. ENGINE PERFORMANCE

- a. Understand and obtain engine performance vehicle information.

K. HEATING AND AIR CONDITIONING

- a. Research and understand components and service information of HVAC systems.

GRADING CRITERIA

Grades will be based on the following categories: Assessments - 25%; Lab Professionalism - 25%; Classroom written work - 25%; Lab Task Sheets - 25%.

Assessments include chapter tests and course segment post tests.

Lab work includes, but not limited to, ASE Student required lab tasks; Customer work; Students/parents personal vehicles.

GRADING SCALE

A	93-100%	C	73-76%
A-	90-92%	C-	70-72%
B+	87-89%	D+	67-69%
B	83-86%	D	63-66%
B-	80-82%	D-	60-62%
C+	77-79%	F	59% and below

ASSIGNMENTS

Assignments include weekly classroom and lab work.

CRITERIA FOR CONSIDERATION FOR 2ND YEAR

Automotive Technology is a two year program. Juniors must apply if they wish to return for the 2nd year of the program.

ACADEMIC INTEGRITY

All students are expected to be honest in their studies. Dishonesty in completing assignments, examinations or other academic endeavors is considered an extremely serious violation of the rights of others and is subject to disciplinary action, ranging from a zero on an assignment up to a failing grade in the course. Plagiarism, the failure to give credit for ideas, thoughts or material taken from another, is cheating and will not be tolerated. Plagiarism includes using someone else’s exact words, or even their ideas but not their exact words. It is a good rule of thumb that if you did not know the information before you started the assignment, you must cite your source.

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