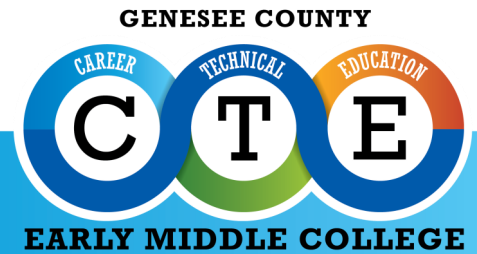


Genesee County  
Career Technical Education  
Early Middle College



# Automotive Technology



**The Automotive Department at Mott Community College prepares students for both the Associate of Applied Science Degree and Certificate of Achievement.**

**Automotive Technology** is certified through the National Automotive Technicians Foundation (NATEF) and includes all eight ASE certification areas. The Automotive Undercar Repair Certificate of Achievement prepares students to quickly gain a high quality skill set to pursue jobs in the areas of manual transmissions, steering, suspension, brakes, and engine repair. Students are encouraged to visit their local Secretary of State office and take the State of Michigan Mechanics Certification test for the classes they have completed. Mott Community College also offers ASE certification testing in its Testing Center.



**The jobs of today require highly skilled technicians.  
Gain the knowledge and hands-on experience that will  
make you employable in these rewarding careers.**



# AUTOMOTIVE TECHNOLOGY

## A Genesee County Career and Technical Education Early Middle College Partnership

### ESSENTIAL ELEMENTS

In addition to the five year plan of study, these POS Essential Elements are integral to the student's educational development.

Career and Technical Student Organization (CTSO)

Community Service

Educational Development Plan (EDP)

Work-Based Learning (WBL)

### What is an Early Middle College?

The Genesee County Career and Technical Education Early Middle College (GC CTE EMC) is a unique opportunity for students to explore and earn an associate's degree, credential or transferable credit in a CTE Career Pathway while in high school.

Students will begin blending their high school coursework with college level coursework in 11th grade, adding additional college courses in 12th grade and complete a full schedule of college coursework in a 13th year.

### What is the MEMCA Certificate?

The Michigan Early Middle College Association (MEMCA) Certificate recognizes early middle college students who successfully complete a minimum of 15 college credit hours. The student must also complete 100 hours of verified community service, a minimum of 40 hours of internship, job shadowing, or clinical experience, or 70 hours of combined community service and verified career exploration.

**SEQUENCE OF COURSES** The grades 9-13 sequence of courses includes the Michigan Merit Curriculum requirements and the required college course work for the listed credentials. See Sequence of Course legend below.

<sup>1</sup>Students must place into these courses through a placement test. If a student does not place into these classes, the sequence of courses will be modified for the student's individual plan of study.

\*Michigan Merit Curriculum: These requirements can be met by successfully completing the first course in the same box. This option will vary by district; please discuss with your local counselor.

\*\*Students will enroll in this college course.

\*\*\*Students receive free college credit for this course by successfully completing the first course listed in the box.

9TH GRADE SEQUENCE OF COURSES		10TH GRADE SEQUENCE OF COURSES	
1st Semester	2nd Semester	1st Semester	2nd Semester
English 9	English 9	English 10	English 10
Math	Math	Math	Math
Science	Science	Science	Science
Social Studies	Social Studies	Social Studies	Social Studies
Foreign Language	Foreign Language	Physical Education	Health
Band/Choir/Fine Arts/VPAA	Band/Choir/Fine Arts/VPAA	Band/Choir/Fine Arts	Band/Choir/Fine Arts

## 11TH GRADE SEQUENCE OF COURSES

1st Semester	2nd Semester
GCI Automotive Technology AUTO 191 Automotive Fundamentals *** 2 <sup>nd</sup> Year Foreign Language, 3 <sup>rd</sup> Year Science & VPAA, Algebra II*	GCI Automotive Technology AUTO 141 Suspension and Alignment *** 2 <sup>nd</sup> Year Foreign Language, 3 <sup>rd</sup> Year Science & VPAA, Algebra II*
ENGL 101 English Composition I ** English 11 <sup>1</sup>	AUTO 119 Engine Theory and Repair **
Algebra II	Algebra II
Government	Elective
Band/Choir/Fine Arts or Elective	Band/Choir/Fine Arts or Elective

## 12TH GRADE SEQUENCE OF COURSES

1st Semester	2nd Semester
GCI Automotive Technology Advanced Studies 2 <sup>nd</sup> Year Foreign Language, 3 <sup>rd</sup> Year Science & VPAA, Algebra II*	GCI Automotive Technology Advanced Studies AUTO 151 Brakes and Braking Systems*** 2 <sup>nd</sup> Year Foreign Language, 3 <sup>rd</sup> Year Science & VPAA, Algebra II*
AUTO 161 Electrical Fundamentals **	AUTO 131 Manual Transmissions/Drive Axles **
ENGL 102 English Composition II ** English 12 <sup>1</sup>	AUTO 182 Ignition and Fuel Systems **
Elective	COMM 140 Principles of Interpersonal Communication **
Band/Choir/Fine Arts or Elective	Band/Choir/Fine Arts or Elective

## 13TH GRADE SEQUENCE OF COURSES

1st Semester	2nd Semester
MATH 128 Technical Mathematics ** Final Year Math/4th Math Related *	ECON 221 Principles of Economics (Macro) ** Economics <sup>1</sup>
AUTO 262 Electrical Systems **	AUTO 292 Service Floor I **
AUTO 221 Automatic Transmission/Theory and Repair **	AUTO 271 HVAC **

The student will need to successfully complete additional coursework upon completion of the 13th grade to receive the Associate Degree in Automotive Technology. Students may have the opportunity to apply for the Genesee Opportunity stipend to help offset these costs. Check [www.genesee.org](http://www.genesee.org) for more information.

This Program of Study is a guide; an individual sequence of courses will be developed for each student and is subject to change by student readiness, course availability and local school district policy.



## HOW TO ENROLL

See your high school counselor to obtain an enrollment application for the Genesee County Career Technical Education Early Middle College. The application, along with additional information about the program, is also available at [www.gccteemc.org](http://www.gccteemc.org).

## DEGREE/ CERTIFICATION

Automotive Technology, A.A.S.  
(Upon completion of additional credits)

Mott Community College Certificate of  
Achievement in Automotive Undercar  
Repair

## INDUSTRY CREDENTIALS

Michigan Mechanics License

Automotive Service Excellence (ASE)

## WAGES AND EMPLOYMENT TRENDS

**Median National Wages 2020**  
\$21.18 hourly, \$44,050 annual

**Median State Wages 2020**  
\$21.12 hourly, \$43,920 annual

**National Employment 2020**  
703,800 employees

**Projected National Growth  
2020-2030** -1%

**Projected National Openings  
2020-2030** 69,000 employees

Source: Bureau of Labor Statistics.

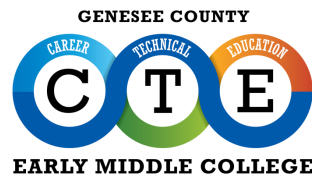
## PARTICIPATING DISTRICTS

Atherton • Beecher • Bendle • Bentley • Carman-Ainsworth • Clio • Davison  
Fenton • Flushing • Genesee • GISD • Goodrich • Grand Blanc • Kearsley  
Lake Fenton • LakeVille • Linden • Madison Academy • Montrose • Mt. Morris  
Swartz Creek • Westwood Heights

The Genesee County Career Technical Education Early Middle College is available to Genesee County high school students through a partnership of Genesee County public school districts and the Genesee Intermediate School District (GISD).



Students accepted into the Genesee County Career Technical Education Early Middle College program will remain students of their high school and may attend courses at Baker College, Genesee Career Institute, and Mott Community College to complete requirements in their Program of Study.



**For more information contact:  
Genesee County Career Technical Education  
Early Middle College Coordinator**

**Phone: (810) 591-3288**

**Email: [gc-cte-emc@geneseeisd.org](mailto:gc-cte-emc@geneseeisd.org)**

**Website: [www.gccteemc.org](http://www.gccteemc.org)**