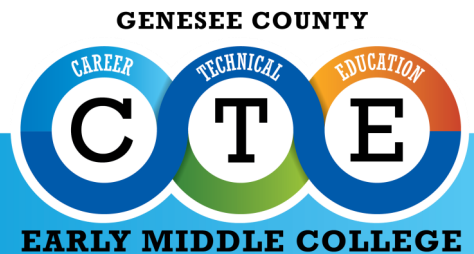


**Genesee County
Career Technical Education
Early Middle College**



Welding Technology Certificate



The Welding Technology Certificate program at Mott Community College prepares students for the Welding Technology Certificate of Achievement.

Welding Technology Certificate covers national standards in five process groups; Base Metal Preparation, Shielded Metal Arc Welding, Gas Tungsten Arc Welding, Gas Metal Arc Welding, and Flux Cored Arc Welding. Students will achieve national code-welding skills in a modern work place environment. Students passing qualification tests will earn AWS certification in addition to the Welding Certificate from Mott Community College.



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



WELDING TECHNOLOGY CERTIFICATE

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.

¹Students 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 Welding 2 nd Year Foreign Language, 3 rd Year Science & VPAA, Algebra II*	GCI Welding WELD 143 Welding Processes *** 2 nd Year Foreign Language, 3 rd Year Science & VPAA, Algebra II*
English 11	English 11
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 Welding Advanced Studies WELD 166 Shielded Metal Arc Welding I*** 2 nd Year Foreign Language, 3 rd Year Science & VPAA, Algebra II*	GCI Welding Advanced Studies WELD 164 Base Metal Preparation*** 2 nd Year Foreign Language, 3 rd Year Science & VPAA, Algebra II*
CADD 100 Mechanical Blueprint Reading w/CADD **	WELD 170 Gas Metal Arc Welding I **
English 12	English 12
Elective	Elective
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 ¹
WELD 174 Flux Cored Arc Welding I **	WELD 168 Gas Tungsten Arc Welding I **
ENGL 103 Composition for Technical Fields **	COMG 153 Computers A Practical Approach **

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.

DEGREE/ CERTIFICATION

Mott Community College Certificate of Achievement in Welding Technology

INDUSTRY CREDENTIALS

American Welding Society

FACILITY CREDENTIALS

American Welding Society Testing Site

WAGES AND EMPLOYMENT TRENDS

Median National Wages 2020
\$18.95 hourly, \$39,410 annual

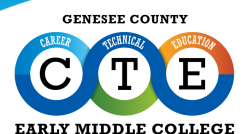
Median State Wages 2020
\$18.48 hourly, \$38,440 annual

National Employment 2020
35,100 employees

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

**Projected National Openings
2020-2030** 3,600 employees

Source: Bureau of Labor Statistics.



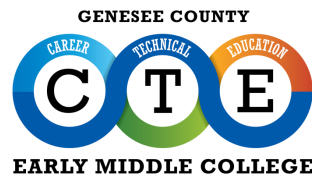
PARTICIPATING DISTRICTS

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

Website: www.gccteemc.org