

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

GENESEE COUNTY



EARLY MIDDLE COLLEGE

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.



### WELDING TECHNOLOGY CERTIFICATE

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



#### **ESSENTIAL ELEMENTS**

In addition to the 5-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 course work 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?

Michigan Early Middle College Association (MEMCA) Certificate recognizes early middle college students who successfully complete a minimum of 15 college credit hours and 100 hours of verified community service, a minimum of 40 hours of work-based learning or a combination of both that equals a minimum of 70 hours.

**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.

<sup>\*\*\*</sup>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

<sup>\*\*</sup>Students will enroll in this college course.

11TH GRADE SEQUENCE OF COURSES		
1st Semester	2nd Semester	
GCI Welding	GCI Welding	
2 <sup>nd</sup> Year Foreign Language, 3 <sup>rd</sup> Year	WELD 143 Welding Processes ***	
Science & VPAA, Algebra II*	2 <sup>nd</sup> Year Foreign Language, 3 <sup>rd</sup> Year	
English 11	English 11	
Algebra II	Algebra II	
Economics	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	GCI Welding Advanced Studies	
WELD 166 Shielded Metal Arc Welding I***	WELD 164 Base Metal Preparation***	
2 <sup>nd</sup> Year Foreign Language, 3 <sup>rd</sup> Year Science & VPAA, Algebra II*	2 <sup>nd</sup> Year Foreign Language, 3 <sup>rd</sup> 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 116 Technical Mathematics **	PSCN 170 American Government **	
Final Year Math/4th Math Related *	Civics <sup>1</sup>	
WELD 174 Flux Cored Arc Welding I ** (SUMMER ONLY)	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 interest, readiness, course availability and local school district policy.



#### **HOW TO ENROLL**

See your high school counselor to apply to 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 2022 \$21.60 hourly, \$44,920 annual

Median State Wages 2022 \$19.33 hourly, \$40,210 annual

National Employment 2022 32,900 employees

Projected National Growth 2022-2032 –2% or lower

Projected National Openings 2022-2032 2,800 employees

Source: Bureau of Labor Statistics.



#### PARTICIPATING DISTRICTS

Beecher • Bendle • Carman-Ainsworth • Clio • Davison • Fenton • Flushing
Genesee • GISD • Goodrich • Grand Blanc • Kearsley • Lake Fenton • LakeVille
Linden • 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).



















For more information contact:
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Early Middle College Coordinator

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Website: www.gccteemc.org

The Genesee Intermediate School District (GISD) does not discriminate on the basis of race, color, religion, national origin, sex, disability, age, height, weight, marital status, genetic information, or any other legally protected characteristic, in its programs and activities, including hirring, promotion and retention. The person designated to handle inquiries regarding the nondiscrimination policies of GISD or to address any complaint of discrimination is Jeffrey Adams, Executive Director of Human Resources and Title IX Coordinator, Human Resources and Operations, 2413 West Maple Avenue, Flint, Michigan 48507-3493.