

# Certificate in Welding Technology

## Program Overview

Upon completion of this certificate, students will be able to have marketable welding skills. They will have an understanding of quality control, process control and problem solving. They will have experience with the newest technological advances.

## To Learn More About This Program

Contact Dan Miles at 269-687-5673 or [dmiles01@swmich.edu](mailto:dmiles01@swmich.edu).

## Certificate Requirements

To earn this certificate, students must have an overall GPA of 2.0 or higher, fulfill the course requirements of the program listed below, and complete a minimum of 21 credit hours. Additionally, each prerequisite course must be completed with a minimum grade of C.

## Course Offerings

Courses within this program are offered on-site at our Niles campus.

## Certificate Courses

Course ID	Course	Credits
WELD 113	Trade Mathematics-Welding	3 credits
WELD 159	Basic Welding	2 credits
WELD 168	Welder Certification Preparation	2 credits
WELD 169	GMAW/MIG Welding	4 credits
WELD 175	GTAW/TIG Welding	4 credits
WELD 180	SMAW/Stick Welding	4 credits
WELD 265	Thermal Cutting Processes	2 credits
WELD 277	Welding Fabrication and Maintenance Repair	2 credits
WELD 280	Metallurgy, Testing, and Inspection	3 credits

Total Program Credits: 26

## Additional Notes About the Certificate in Welding Technology Program

- Courses taken out of sequence may delay a student’s ability to complete the program in a timely manner. Please consult your advisor regularly.
- Each student should submit a graduation application at least one full semester before they plan to graduate.
- This program is subject to change. Students should consult with their advisor for program updates.

## Example Course Sequence

The following is a sample of a semester-by-semester approach to completing this program.

### FIRST SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of C Required)
WELD 113 Trade Mathematics-Welding	3 credits	Test score
WELD 159 Basic Welding	2 credits	None
WELD 180 SMAW/Stick Welding	4 credits	WELD 159 (concurrent enrollment allowed)
WELD 265 Thermal Cutting Processes	2 credits	None
WELD 280 Metallurgy, Testing, and Inspection	3 credits	WELD 159 (concurrent enrollment allowed)

### SECOND SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of C Required)
WELD 168 Welder Certification Preparation	2 credits	WELD 159
WELD 169 GMAW/MIG Welding	4 credits	WELD 159
WELD 175 GTAW/TIG Welding	4 credits	WELD 159
WELD 277 Welding Fabrication and Maintenance Repair	2 credits	WELD 113; WELD 159; WELD 169; WELD 175; WELD 265 (concurrent enrollment in WELD 113, 169, and 175 allowed)