

Welding Technology, AAS

Academic Year 2026-2027

Program Description:

The Welding Technology Program is an industry-driven, hands-on program that prepares individuals to meet the rigorous demands of the manufacturing sector.

The welding program delivers skills that an individual will need to be successful in industry. This is accomplished through a hands-on approach and intensive student instructor interaction. The best way to learn to weld is by actually welding. Therefore, the focus is on work done outside the traditional classroom and in a shop setting, providing the student a true feel for the correct way to weld. A major subject is safety and this program teaches individuals how to protect themselves and their environment while completing the job. Students learn a variety of welding methods including SMAW (Stick), GMAW (Mig), GTAW (Tig) and FCAW (Flux Core), as well as metal cutting techniques, metallurgy, blueprint reading, and additional topics of interest such as robotic welding, fabrication, and pipe welding to ensure they have the necessary skills expected by employers.

Comprehensive full- and part-time programs are available, thus enabling current workforce members to improve their technical skills and develop professionally while helping their employers become more competitive.

Career Outlook and Salary Forecast:

For the most current information, please refer to the Bureau of Labor Statistics "Occupational Outlook Handbook" found at www.bls.gov/ooh/.

Program Outcomes:

- Demonstrate the ability to identify and correct safety issues
- Demonstrate the ability to interpret blueprints for welding requirements
- Demonstrate the ability to use SMAW weld processes with sound welds
- Demonstrate the ability to use GMAW weld processes with sound welds
- Demonstrate the ability to use FCAW weld processes with sound welds
- Demonstrate the ability to communicate within the field
- Demonstrate the ability to complete complex projects using a variety of welding concepts.
- Demonstrate the ability to weld to certification level in one or more processes

Program Admission Requirements:

The Welding Technology Program has admission and candidacy requirements in addition to the Mountwest Community & Technical College admission guidelines.

Contact Information:

Wendy Quattlebaum
Director of Skilled Trades and Industrial
Technologies
Phone: 304-710-3384
Email: quattlebaum@mctc.edu

Welding Technology – Major Code CW10

Name:	ID Number 942-
Educational Counselor:	
Faculty Advisor:	

COURSE	REQUIREMENTS	SEM	HRS	GR	SUBSTITUTE/REPEAT CRS	SEM	CR
WELD 106	Manufacturing Skills I		1				
WELD 110	Blueprint Reading for Welding		2				
WELD 112	Basic Metallurgy		2				
WELD 115	Introduction to Welding		5				
WELD 120	Shield Metal Arc Welding (SMAW)		5				
			15				
WELD 126	Manufacturing Skills II		1				
WELD 130	Gas Meta Arc Welding		5				
WELD 140	Flux Cored Arc Welding		5				
WELD	Restricted Elective ¹		4				
			15				
COM 125	Interpersonal Communication		3				
ENL 101 or ENL 131	Written Communication or Business and Technical Report Writing ⁴		3				
MAT 135	Technical Math		3				
WELD	Restricted Elective ¹		8				
			17				
Gen Ed Elec.	General Education Course ³		3				
IT 101	Fundamentals of Computers		3				
Restricted Elective	Restricted Elective ²		4				
WELD 298	Welding Capstone		3				
			13				
HOURS REQUIRED FOR GRADUATION: 60							

¹ Any WELD class not already required in the program may be taken except for WELD 141 – Welding for non-majors

² Any WELD class not already required in the program may be taken except for WELD 141 – Welding for Non-majors or any MT (Machining), MFG (SMART Manufacturing, or ELT (Electronic course).

³ Choose from any Math, Science, Social Science, English, Communications, History, or Humanities course

⁴ ENL 101/ENL 131 has a prerequisite of ACT 18, SAT 480, Accuplacer 250-300, or be placed in ENL 101E/131E.