

Welding Technology, CAS

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), and FCAW (Flux Core), as well as metal cutting techniques to ensure they have the necessary skills expected by employers.

This program provides new welders a firm foundation for entry-level work in the field.

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.

Program Outcomes:

- Demonstrate the ability to identify and correct safety issues
- Demonstrate the ability to interpret blueprints for weld requirements
- Demonstrate the ability to use SMAW weld processes with sound welds
- Demonstrate the ability to use GMAW weld processes with sounds welds
- Demonstrate the ability to use FCAW weld processed with sounds welds
- Demonstrate the ability to communicate within the field

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 Admission Requirements:

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

Contact Information:

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Mountwest empowers students to learn and lead in the community and in the workforce.

Welding Technology Certificate – Major Code CW12

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| 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 | Shielded Metal Arc Welding (SMAW) | | 5 | | | | |
| | | | 15 | | | | |
| WELD 126 | Manufacturing Skills 2 | | 1 | | | | |
| WELD 130 | Gas Metal Arc Welding | | 5 | | | | |
| WELD 140 | Flux Cored Arc Welding | | 5 | | | | |
| WELD | Restricted Electives ¹ | | 4 | | | | |
| | | | 15 | | | | |
| HOURS REQUIRED FOR GRADUATION: 30 | | | | | | | |

¹ Any WELD class not already required in the program may be taken EXCEPT for WELD 141 – Welding for Non-Majors.