

# Welding Technology

PROGRAM CODE: 10-621-1



Associate Degree



COURSES	CREDITS
ENG-195 Written Communication ‡ ..... (or) ENG-201 English 1 ‡	3
MATH-115 College Technical Mathematics 1 ‡ ..... (or) MATH-113 College Technical Mathematics 1A‡ and MATH-114 College Technical Mathematics 1B ‡	5
WELDTC-101 Welding Theory 1 .....	2
WELDTC-107 Fabrication Graphics .....	3
WELDTC-111 Welding Practice 1.....	4
WELDTC-181 Welding Technology Orientation.....	1
ENG-197 Technical Reporting ‡..... (or) Any 200-level ENG or SPEECH course	3
MATH-116 College Technical Mathematics 2 ‡ .....	4
WELDTC-102 Welding Theory 2 .....	3
WELDTC-105 Weldability of Materials ‡ .....	3
WELDTC-112 Welding Practice 2 ‡.....	4
MATRLS-102 Material Testing.....	3
SOCSCI-103 Think Critically and Creatively .....	3
(or) Any 200-level HIST or SOCSCI course	
WELDTC-113 Welding Techniques 1 ‡.....	3
WELDTC-140 Manufacturing Applications for Robots.....	4
MATRLS-151 Metallurgy and Materials Science.....	3
PSYCH-199 Psychology of Human Relations.....	3
(or) Any 200-level PSYCH course	
WELDTC-114 Welding Techniques 2 ‡.....	3
WELDTC-135 Automated Welding Processes ‡ .....	4

**Location:** Education Center at Walker’s Square

**Start Dates:** August and January

**Admission Requirement:** High school diploma or equivalent

**Academic Preparedness Requirement:** One year of high school-level algebra

**Financial Aid Eligible:** Yes. Use code 003866 at fafsa.gov.

**Bilingual (Spanish) mode also is offered.**

### Program Description

This program combines practical, theoretical and technical training in welding fabrication. Advanced courses deal with application of welding codes to develop the expertise needed to become a Certified Associate Welding Inspector or Certified Welding Inspector.

### Career Outlook

Demand is high for welders with current skills. Graduates typically find employment as welding technicians, robotic welding technicians, technical sales reps and weld test conductors.

### Program Learning Outcomes

- Demonstrate industry-recognized safety practices.
- Interpret welding drawings.
- Produce welds to current AWS specifications.
- Manufacture products to specifications.
- Inspect products.
- Operate robotic welding equipment.

### CREDITS

Total credits needed to complete this degree

**61**

‡ Prerequisite required.

Program curriculum requirements are subject to change.

Official Wisconsin Technical College System program title: Industrial Welding Technician.

Current MATC students should consult their Academic Program Plan for specific curriculum requirements.

MATC courses are offered in person, entirely online or partially online.

Check each course’s delivery options in Self-Service at [selfservice.matc.edu](http://selfservice.matc.edu).



**Complete Program Details**

**QUESTIONS?** 414-297-8901 or [mctpathway@matc.edu](mailto:mctpathway@matc.edu)