

Welding Technology

PROGRAM CODE: 10-621-1



Associate Degree

**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.

**Complete Program Details****QUESTIONS?** 414-297-8901 or mctpathway@matc.edu

COURSES

CREDITS

ENG-195	Written Communication ‡.....	3
	(or) ENG-201 English 1 ‡	
MATH-115	College Technical Mathematics 1 ‡.....	5
	(or) MATH-113 College Technical Mathematics 1A‡ and MATH-114 College Technical Mathematics 1B ‡	
WELDTTC-101	Welding Theory 1	2
WELDTTC-107	Fabrication Graphics	3
WELDTTC-111	Welding Practice 1.....	4
WELDTTC-181	Welding Technology Orientation.....	1
ENG-197	Technical Reporting ‡.....	3
	(or) Any 200-level ENG or SPEECH course	
MATH-116	College Technical Mathematics 2 ‡	4
WELDTTC-102	Welding Theory 2	3
WELDTTC-105	Weldability of Materials ‡	3
WELDTTC-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	
WELDTTC-113	Welding Techniques 1 ‡.....	3
WELDTTC-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	
WELDTTC-114	Welding Techniques 2 ‡.....	3
WELDTTC-135	Automated Welding Processes ‡	4

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.