

WELDING TECHNOLOGY (WT)

About the program

Programs in this field provide general and specific educational opportunities for students seeking careers requiring knowledge of welding techniques and procedures.

Degrees/Certificates within this Program:

- Associate of Science Degree, Welding Technology
- Certificate of Achievement, Welding Technology
- Certificate of Recognition, General Welding
- Certificate of Recognition, Electric Arc & Oxyacetylene Welding
- Certificate of Recognition, MIG & TIG Welding

Similar Degrees/Certificates offered at CR:

- Associate of Science Degree, CADD/CAM Design and Manufacturing
- Certificate of Achievement, CADD/CAM Design and Manufacturing
- Associate of Science Degree, Manufacturing Technology
- Certificate of Achievement, Manufacturing Technology

Career Opportunities

Employment opportunities in this field include:

- Welding supervisors
- Welding inspectors
- Welding engineers
- Educators
- Drafters
- Equipment repair
- Self-Employment
- Material/equipment sales

For more information

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www.redwoods.edu/Welding-Technology/
- Career & Technical Division, 707-476-4341
- Counseling & Advising, 707-476-4150

Program Learning Outcomes:

- Demonstrate safe welding and shop practice.
- Setup and operate hand and power tools, manual or semi-automatic welding equipment, such as SMAW, OAW, OABW, PAC, AAW, CAC, GMAW, FCAW, MIG and MAG.
- Identify and demonstrate weld procedures, manipulative techniques, processes, layout, concepts, and theory to produce welds common to the weld industry.

Associate of Science Degree, Welding Technology

	Units
General Education Requirements	18.0
Program Requirements	40.0
Core Courses	31.0
IT 60A Basic Manufacturing Print Reading	3.0
WT 53 Basic Gas and Arc Welding	2.0
WT 54 General Gas, Braze (emphasis) Welding, and Soldering	2.0
WT 56 Intermediate Arc and Gas Welding Lab	1.0
WT 60 Welding Gas and Arc (emphasis E6013), and Gas Cutting	4.0
WT 61 Welding and Gouging, Gas and Arc (emphasis E7018, Braze)	4.0
WT 63 Weld Inspection, Testing, Resistance, and Pattern Cutting	4.0
WT 64 Welding (emphasis Cored Wire), Surfacing, Lancing, and Automated Cutting	4.0
WT 67 Special Welding Lab (emphasis AWS certification)	2.0
WT 80 Welding Fabrication	2.0
WT 90 Gas Metal Arc and Gas Tungsten Arc Welding	2.0
WT 91 Gas Metal Arc and Gas Tungsten Arc Welding Lab	1.0
Restricted Electives (Choose 9 units from the list below)	9.0
BUS 10* Introduction to Business	3.0
CET 10* Survey of Electronics	3.0
CT 78A Residential Wiring I	2.0
CT 78B Residential Wiring II	2.0
IT 25 OSHA General Industry Safety Management	3.0
IT 125 OSHA Ten Hour General Industry Safety	0.5
IT 152 Technical Computer Applications Lab	1.0
MT 10 Fundamentals of Manufacturing Technology	3.0
MT 52 Introduction to Metallurgy and Material Science	3.0
WT 40 Independent Study	0.5-2.0
Unrestricted Electives as needed to complete 60 units total.	
Total Units	60.0
* Course may be double counted toward General Education.	

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Suggested Program Sequence

Semester 1: IT-60A, WT-53, WT-90, WT-91 GE Area D1, GE Area D3

Semester 2: WT-54, WT-80, GE and Restricted Electives

Semester 3: WT-56, GE and Restricted Electives

Semester 4: WT-67, GE and Restricted Electives