



Welding Technology Certificate of Achievement

The welding program is designed for students interested in seeking employment or advancing employment in welding fabrication and industrial repairs. Welding encompasses study in electrical, metallurgy, chemistry, physics, design, and mechanical engineering.

SUGGESTED PROGRAM COURSE SCHEDULE

SEMESTER 1

16 UNITS

Course	Units	Pre-Reqs [^]	Semesters offered*	GE Area
WELD 100 Basic Intro to Welding	3		F(1 st 8 wks); S(1 st 8 wks), Su	
13 units from List A	13		See List A	See List A

LIST A – Select a minimum of 13 units

Course	Units	Pre-Reqs [^]	Semesters offered*	GE Area
WELD 110 Advanced SMAW & Semi-Automatic Process	4	WELD 100 or 160	F(2 nd 8 wks)	
WELD 111 Basic Pipe Welding	4	WELD 100 or 160	S(1 st 8 wks)-odd year (check Class Schedule for Offering)	
WELD 113 Basic Flux Core Arc Welding	4	WELD 100 or 160	S(1 st 8 wks)-even yr (check Class Schedule for Offering)	
WELD 125 Intro to GMAW Process	1.5		F(2 nd 8 wks)	
WELD 126 Gas Metal Arc Welding of Plate & Pipe	3		S(2 nd 8 wks)-even yr (check Class Schedule for Offering)	
WELD 127 Gas Metal Arc Welding of Sheet Metal	3		S(2 nd 8 wks)-odd year (check Class Schedule for Offering)	
WELD 128 Gas Tungsten Arc Welding of Aluminum Alloys	3	WELD 100 or 160	F(1 st 8 wks)-odd year (check Class Schedule for Offering)	

[^]You must have passed the prerequisite course(s) with a "C" or better; Corequisite must be taken during the same semester; Advisory means it is recommended but not required to enroll in the course.

*(O) = online available (H) = hybrid available

Catalog Year: 2019-2020

Counseling Faculty Contact: Lee Weathers

Faculty Contact: Jason Roberts

Career Options/Outlook: Welders use hand-welding or flame-cutting equipment to weld or join metal components or to fill holes, indentations or seams of fabricated metal products. Typical tasks include operating safety equipment and using safe work habits, recognizing, setting up, and operating hand and power tools common to the welding trade, such as shielded metal arc and gas metal arc welding equipment.

A sample of reported job titles:

Aluminum Welder, Fabrication Welder, Fabricator, Fitter/Welder, Maintenance Welder, Mig Welder, Sub Arc Operator, Welder, Welder-Fitter, Welder/Fabricator

Projected job opening in California (2016-2026):

3,450

Projected growth:

Average (5%-9%)

Salary in California:

Median wage (2017): \$41,350/yr

Source:

<https://www.onetonline.org/link/summary/51-4121.06>

LIST A - Continue – Select a minimum of 13 units

Course	Units	Pre-Reqs [^]	Semesters offered*	GE Area
WELD 129 Gas Tungsten Arc Welding of Stainless Steel	3	WELD 100 or 160	F(1 st 8 wks)- odd yr (check Class Schedule for Offering)	
WELD 145 Basic Welding Shop Fabrication	3		F(2 nd 8 wks) (check Class Schedule for Offering)	
WELD 151 Industry Training	4	WELD 110, 111, 113, 126, 127, 128, 129	S(2 nd 8 wks)	
WELD 160 Welding Technology for the Automotive Industry	1.5		S(2 nd 8 wks)	

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*(O) = online available (H) = hybrid available

Honors option:

The CRC Honors Program is designed specifically for academically accomplished students and for students with the potential for high achievement. Students who complete 15 units or more in honors-designated courses will earn special recognition as an Honors Scholar, a distinction that may entitle the student to guaranteed transfer and scholarship opportunities at select transfer colleges and universities.

Transfer notes:

Please meet with a counselor for specific transfer course evaluation or transferring to a specific 4-year institution.