



Welding Associate of Science Degree

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

17.5 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	
WELD 110 Advanced SMAW & Semi-Automatic Process	4	WELD 100 or 160	F(2 nd 8 wks)	
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)	
Elective Suggestion: WELD 125 Intro to GMAW Process	1.5		F(2 nd 8 wks)	
CRC Area II(a) Writing competency	3	Recommend meeting with a counselor	F, S, Su	CRC Area II(a)
CRC Area II(b) Math competency	3	Recommend meeting with a counselor	F, S, Su	CRC Area II(b)

SEMESTER 2

16 UNITS

Course	Units	Pre-Reqs [^]	Semesters offered*	GE Area
WELD 127 Gas Metal Arc Welding of Sheet Metal	3		S(2 nd 8 wks)-odd year (check Class Schedule for Offering)	
Elective: Suggestion: WELD 111 Basic Pipe Welding	4	WELD 100 or 160	S(1 st 8 wks)-odd year (check Class Schedule for Offering)	
CRC Area I Humanities	3		F, S, Su	CRC Area I
CRC Area IV Natural Science	3		F, S, Su	CRC Area IV
CRC Area III(b) Life Development Skills	3		F, S, Su	CRC Area III(b)

[^]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

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>

SEMESTER 3

15 UNITS

Course	Units	Pre-Reqs [^]	Semesters offered*	GE Area
Elective: Suggestion: 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)	
Elective: Suggestion: WELD 145 Basic Welding Shop Fabrication	3		F(2 nd 8 wks) (check Class Schedule for Offering)	
CRC Area V(a) American Institutions	3		F, S, Su	CRC Area V(a)
CRC Area VI Ethnic/Multicultural Studies	3		F, S, Su	CRC Area VI
CRC Area V(b) Soc Beh Sciences	3		F, S, Su	CRC Area V(b)

SEMESTER 4

12 UNITS

Course	Units	Pre-Reqs [^]	Semesters offered*	GE Area
WELD 151 Industry Training	4	WELD 110, 111, 113, 126, 127, 128, 129	S(2 nd 8 wks)	
Elective: Suggestion: WELD 113 Basic Flux Core Arc Welding	4	WELD 100 or 160	S(1 st 8 wks)- even yr (check Class Schedule for Offering)	
Elective: Suggestion: WELD 126 Gas Metal Arc Welding of Plate & Pipe	3		S(2 nd 8 wks)- even yr (check Class Schedule for Offering)	
CRC Area III(a) Physical Edu Activity	1		F, S, Su	CRC Area III(a)

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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.

General Education (GE):

Non-specified GE courses identified by CRC Area, CSU Area or IGETC Area without pre- or co-requisite can be taken at any semester.

Courses in red meet the requirement for the Certificate of Achievement in Welding Technology.

This certificate requires a minimum of 13 units from the following:

WELD 110 Advanced Shielded Metal Arc Welding
WELD 111 Basic Pipe Welding Procedures
WELD 113 Basic Flux Core Welding Procedures
WELD 125 Intro to the Gas Metal Arc Welding Process
WELD 126 Gas Metal Arc Welding of Plate & Pipe
WELD 127 Gas Metal Arc Welding Process of Sheet Metal
WELD 128 Gas Tungsten Arc Welding of Aluminum Alloys
WELD 129 Gas Tungsten Arc Welding of Stainless Steel
WELD 145 Basic Welding Shop Fabrication Skills
WELD 151 Industry Training
WELD 160 Welding Technology for the Automotive Industry
WELD 295 Independent Studies in Welding
WELD 298 Work Experience in Welding