



Welding Technology Certificate

PART TIME

This program roadmap represents one possible pathway to complete the program. **Please see a counselor** to create an education plan that is customized to meet your needs. This roadmap is not a guarantee of course availability or financial aid applicability.

Catalog: 2025-26

Total Units: 35

Start Term: Fall

First Year

Semester 1 (Fall)

9 Units

CAT.	COURSE	UNIT	PREREQUISITES
Req	WELD 140 Mathematics for Welding Technicians	3	
RE	WELD 300 Introduction to Welding	3	
Req	WELD 302 Introduction to Welding Metallurgy	3	

Semester 2 (Spring)

8 Units

CAT.	COURSE	UNIT	PREREQUISITES
Req	WELD 316 Welding Inspection	2	(see below)
Req	WELD 330 Gas Tungsten Arc Welding (Plate)	3	(see below)
Req	WELD 332 Gas Tungsten Arc Welding (Pipe)	3	(see below)

WELD 316/330 prerequisite: WELD 300, or at least one year of welding experience.

WELD 332 prerequisite: WELD 330, or at least two years of welding experience.

Second Year

Semester 3 (Fall)

9 Units

CAT.	COURSE	UNIT	PREREQUISITES
Req	WELD 333 Gas Metal Arc Welding, Steel	3	(see below)
Req	WELD 334 Gas Metal Arc Welding: Ferrous and Non-Ferrous Metals	2	WELD 333
Req	WELD 342 Symbol Reading, Layout and Fabrication	3	
RE	WELD 298 Work Experience in Welding	1	

WELD 333 prerequisite: WELD 300, or at least one year of welding experience.

Semester 4 (Spring)

9 Units

CAT.	COURSE	UNIT	PREREQUISITES
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CAREER PATH

Career Options:

This certificate prepares students to work as a welder in:

- oil refineries
- nuclear power plants
- aerospace industry
- structural buildings
- bridge construction
- auto industry
- small commercial fabrication shops

It also prepares students to work as welding shop supervisors and welding sales persons.

Scheduling Notes:

- WELD 302, 333, and 334 are offered in the fall.
- WELD 316 and 332 are offered in the spring.
- WELD 333 and 334 are offered as 5-week courses that can be taken in the same semester.
- WELD 320 and 322 are offered as 5-week courses that can be taken in the same semester.
- WELD 330 and 332 are offered as 5-week courses that can be taken in the same semester.

Other Notes:

- An internship (WELD 298) is highly recommended as it opens up potential employment opportunities. Students can earn at least 1 unit for related paid or

CAT.	COURSE	UNIT	PREREQUISITES
Req	WELD 320 Shielded Metal Arc Welding Structural	3	(see below)
Req	WELD 322 Shielded Metal Arc Welding (Pipe)	3	(see below)
Req	WELD 335 Flux Core Arc Welding	3	(see below)

WELD 320/335 prerequisite: WELD 300, or at least one year of welding experience.

WELD 322 prerequisite: WELD 320, or at least two years of welding experience.

unpaid work experience including volunteer and internship positions through WELD 298. See the [Work Experience website](#) for more information.

- At the end of the second semester, students qualify for the **Gas Tungsten Arc Plate and Pipe Welding certificate**.

EXPLANATION OF CATEGORIES

Req	Required Core	A course that is required for this program
RE	Restricted Elective	A course selected from a list of elective courses specified for this program in the course list in the catalog, which can be replaced with another course from the same list

Published April 12, 2025