



A certificate in Structural Welding prepares students for entry-level positions as a welder, sheet-metal worker, or fabricator by providing hands-on training introducing the best practices basic welding. Upon completion of this certificate, the student should be able to obtain careers in the manufacturing industry.

### Recommended Course Sequence

Program Courses	Credits	Suggested Semester
WLDG 1313* Introduction to Blueprint Reading for Welders	3	Fall/Year 1
WLDG 1407* Introduction to Welding Using Multiple Processes	4	Fall/Year 1
WLDG 1428* Introduction to Shielded Metal Arc Welding	4	Fall/Year 1
WLDG 1417* Introduction to Layout and Fabrication	4	Fall/Year 1
TECM 1303* Technical Calculations	3	Spring/Year 1
WLDG 1435* Introduction to Pipe Welding	4	Spring/Year 1
WLDG 1434* Introduction to Gas Tungsten Arc Welding	4	Spring/Year 1
WLDG 2413* Intermediate Welding Using Multiple Processes	4	Spring/Year 1
WLDG 2435* Advanced Layout and Fabrication	4	Fall/Year 2
<b>Total Credit Hours for Graduation</b>	<b>34</b>	

\*Grade of “C” or better is required for graduation.

Program Student Learning Outcomes (PSLO) are statements that specify what students will know, be able to do or be able to demonstrate when they have completed the program.

1. Interpret and apply welding blueprints, including the understanding of symbols, measurements, and specifications, to guide welding projects.
2. Develop basic principles for welding tasks using multiple processes.
3. Apply welding techniques using the Shielded Metal Arc Welding (SMAW) and Gas Tungsten Arc Welding.
4. Differentiate between layout and fabrication, including the ability to measure, mark, cut, and assemble materials according to design specifications and project requirements.
5. Gain specialized skills in pipe welding, mastering the techniques required to weld pipes in various configurations, including critical applications in industries such as oil and gas.
6. Develop advanced fabrication skills, including complex layout and fitting techniques, enabling them to construct intricate welded structures and components with accuracy and efficiency.

This information is provided as an example only. You will develop a personalized plan with your Success Coach and faculty advisor/mentor that reflects your goals and interests. You are required to meet with an advisor each semester to ensure you are on track for graduation. This document does not contain all the information you need to stay on track for graduation.