

**Area of Interest:** Industrial Technology & Skilled Trades  
**Certificate:** Advanced Structural Welding and Fabrication  
**College Catalog:** [2022-2023](#)



**Program Location:** Signal Peak

**Program Description:** The Advanced Structural Welding and Fabrication Certificate increases students' exposure and skills needed for the structural welding industry. Students' complete courses to complete the Fundamentals of Structural Welding Certificate and in the Spring, semester are introduced to Shielded Metal Arc Welding and thermal cutting processes needed for steel fabrication. AWS D1.1 Structural Steel welding code certifications are achievable during course WLD229 towards the end of the semester. WLD128 provides students with an introduction how to read and draw welded assembly drawings and provides students with basic Computer Aided Design skills as they pertain to the steel industry.

**Advising:** [itst.advisor@centralaz.edu](mailto:itst.advisor@centralaz.edu)

**Area of Interest Website:** [Industrial Technology and Skilled Trades - Central Arizona College \(centralaz.edu\)](#)

### Legend

**Bold Course**=Required Course      Recommended Course (R)      Stackable Certificate (SC)

**AGEC Course list** (Arizona General Education Curriculum) and other degree requirements.

Written Communication ( <b>WC</b> )	Oral Communication ( <b>OC</b> )	Arts/Humanities ( <b>AH</b> )	Social/Behavioral Science ( <b>SB</b> )
Lab Science ( <b>LS</b> )	Mathematics ( <b>M</b> )	Core Course ( <b>CC</b> )	Elective ( <b>E</b> )

**Semester 1** New Students-Find your suggested starting point for [English/Reading & Math courses](#).

		COURSE	CREDITS	SEMESTER/GRADE	NOTES
SC	CC	<b>WLD128 Intro to Structural Drawings &amp; CAD</b>	4		
SC	CC	<b>WLD129 Intro to Shielded Metal Arc Welding &amp; Thermal Cutting Processes</b>	6		
SC	CC	<b>WLD229 Advanced Shielded Metal Arc Welding</b>	6		
<b>Total Certificate Credits:</b>			<b>16</b>	<b>Apply for graduation and attend career events!</b>	

Arizona Resident Tuition for 2022-2023 is \$50 per credit hour; see [Paying for College](#). Financial aid may be available.

### Career Information

**CAC Career Center:** [centralaz.edu/career](http://centralaz.edu/career) FREE CAC career resources and assistance.

**O\*NET OnLine:** Visit [onetonline.org](http://onetonline.org) and search for:

**Occupations in Advanced Structural Welding and Fabrication including:**

- Education needed for specific occupations
- Occupation tasks, knowledge, skills and abilities
- Salary/wages for specific occupations (\$)

### Transfer Information

**CAC University Transfer Center:** [centralaz.edu/transfer](http://centralaz.edu/transfer) FREE CAC transfer resources and assistance.

**Note:** Use this Program MAP as a guide to choose courses with your advisor and track progress towards milestones and completion of program. Work with an advisor to customize your plan to align with your specific career and/or transfer goals.

**Part-Time Students:** Plans can be modified to fit the need of part-time students by adding more semesters.

<b>Student Name:</b>	<b>Advisor Name:</b>
<b>Student ID Number: 880</b>	<b>Date:</b>