

# Structural Steel Welding – Certificate of Achievement

+If you have completed coursework at another college and/or are starting in a semester other than a Fall term, please follow up with the Counseling Department to determine if this sequence is appropriate for your academic and career goals.

## Program Description:

The Welding Technology Certificate of Achievement in Structural Steel Welding is designed for those interested in welding structural steel. Coursework includes a comprehensive study with an emphasis on application of fundamental welding techniques and industry practices. Program completers are prepared for entry level employment into industries such as steel construction and maintenance & repair, and general fabrication.

## Program SLO:

Students will be able to demonstrate advanced level skills to produce quality welds in the flat, horizontal, vertical, and overhead positions using the shielded metal arc welding process.

**Important Transfer Information:** For students interested in earning an Associate's degree and/or transfer, please follow up with the Counseling Office for additional information @ <https://www.canyons.edu/counseling> or (661)362-3288/(661)362-3811.

Major courses are sequenced and **BOLDED** based on recommendations by the [Welding Technology Department](#)

## First Semester (2.5-8.5 units minimum)

FA = Fall; WI = Winter; SP = Spring; SU = Summer

Course	Title	Units	Major
<b>WELD 101A</b>	<b>Introduction to Shielded Metal Arc Welding (FA, SP)</b> <i>Offered the 1<sup>st</sup> 5 weeks of the term</i>	2.5	Major
<b>WELD 101B</b>	<b>Intermediate Shielded Metal Arc Welding (FA, SP)</b> <i>Offered the 2<sup>nd</sup> 5 weeks of the term</i>	2.5	Major
<b>WELD 101C</b>	<b>Advanced Shielded Metal Arc Welding (FA, SP)</b> <i>Offered the 3<sup>rd</sup> 5 weeks of the term</i>	2.5	Major
<b>WELD 132</b>	<b>Blueprint Reading for Welders and Fabricators (FA, SP)</b>	3	Major
<b>WELD 133</b>	<b>Welding Inspection (FA)</b>	3	Major
<b>Term Total:</b>		<b>13.5</b>	

Note: WELD 101A is a pre-requisite for WELD 101B and WELD 101B is a pre-requisite for WELD 101C. These courses are offered in 5 week sessions, and designed to be completed in one term.

## Second Semester (9.5-14 units minimum)

Course	Title	Units	Major
<b>WELD 130</b>	<b>Welding Metallurgy (FA, SP)</b>	3	
<b>WELD 131</b>	<b>Non-Destructive Testing (FA, SP)</b>	3	Major
<b>Term Total:</b>		<b>6</b>	

**Total Units: 19.5**

## Counseling Resources

Welding Technology Department: <https://www.canyons.edu/academics/welding/>

Counseling Department: <https://www.canyons.edu/student-services/counseling/>

Campus Alliances: <https://www.canyons.edu/administration/ie2/equity/alliances/index.php>

Petition for Certificate of Achievement: Petitions are due in the fall/spring/summer term you will complete the requirements and may be submitted before your last term or up until the final day of the term. The petition form must be reviewed with a counselor and may be found here:

[https://www.canyons.edu/resources/documents/student-services/admissions/Petition\\_for\\_Associate\\_Degree\\_and\\_Certificate\\_of\\_Achievement.pdf](https://www.canyons.edu/resources/documents/student-services/admissions/Petition_for_Associate_Degree_and_Certificate_of_Achievement.pdf)

## **Career Resources**

Welding Career Tree: <https://www.canyons.edu/academics/welding/careertree/index.php>

Careers in Welding: <https://www.careersinwelding.com/>

American Welding Society (AWS): <https://www.aws.org/>

California Career Zone: <https://www.cacareerzone.org/>

O\*Net Online: <https://www.onetonline.org/>

Bureau of Labor and Statistics: [www.bls.gov](http://www.bls.gov)

## **Industry Certifications**

LA Department of Building and Safety (LADBS): <https://www.ladbs.org/default>

FANUC Certified Education Robot Training (CERT): <https://www.fanucamerica.com/>

AWS Certified Welder Program (CW): <https://www.aws.org/certification/page/certified-welder-program>

FMA Metal Fabrication Certificate: <https://www.fmamfg.org/training/fundamentals-of-metal-fabrication-certificate-exam>

AWS Certified Robotic Arc Welding Program: <https://www.aws.org/certification/detail/certified-robotic-arc-welding#:~:text=Description,against%20standards%20for%20their%20occupation.>