

Robotic Welding Automation– 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 Robotic Welding Automation provides training to gain the technical and applied skills required to perform advanced programming and operational tasks as per the American Welding Society standards and specifications for robotic welding.

Program SLO:

Analyze the theory and skills necessary for performing advanced programming and operational tasks as per AWS Robotic Arc Welding standards. Students will be able to safely operate common robotic welding automation systems while performing advanced programming and welding functions.

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
WELD 114A	Introduction to robotic welding Automation (FA)	2.5	Major
WELD 130	Welding Metallurgy (FA, SP)	3	Major
WELD 132	Blueprint Reading for Welders and Fabricators (FA, SP)	3	Major
Term Total:		8.5	

Note: WELD 114A is a pre-requisite for WELD 114B

Second Semester (9.5-14 units minimum)

Course	Title	Units	Major
WELD 114B	Intermediate Robotic Welding Automation (SP)	2.5	Major
WELD 131	Non-Destructive Testing (FA, SP)	3	Major
Term Total:		5.5	

Note: WELD 114B is a pre-requisite for WELD 114C

Third Semester (15-19.5 units minimum)

Course	Title	Units	Major
WELD 114C	Advanced Robotic Welding Automation (FA)	2.5	Major
WELD 133	Welding Inspection (FA)	3	Major
Term Total:		5.5	

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/ic2/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>

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

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.>