

Gas Tungsten Arc 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 Gas Tungsten Arc Welding (GTAW) provides training to gain the technical and applied skills to perform advanced welding tasks. Course work includes a comprehensive study with an emphasis on application of advanced welding techniques and industry practices. Program completers are prepared for entry-level employment into industries such as aerospace, motorsports, petrochemical, and general fabrication.

Program SLO:

Students will be able to demonstrate proficiency in industry recognized principles and practices as they apply to today's welding and metal fabrication industries.

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 112A | Introduction to Gas Tungsten Arc Welding (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 112A is a pre-requisite for WELD 112B

Second Semester (9.5-14 units minimum)

| Course | Title | Units | Major |
|--------------------|---|------------|--------------|
| WELD 112B | Intermediate Gas Tungsten Arc Welding (SP) | 2.5 | Major |
| WELD 131 | Non-Destructive Testing (FA, SP) | 3 | Major |
| Term Total: | | 5.5 | |

Note: WELD 112B is a pre-requisite for WELD 112C

Third Semester (15-19.5 units minimum)

| Course | Title | Units | Major |
|--------------------|---|------------|--------------|
| WELD 112C | Advanced Gas Tungsten Arc Welding (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/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

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.>