



SUNY NIAGARA
Welding Technology, A.A.S.

Overview

The Welding Technology curriculum includes coursework in welding that is designed to prepare the student for various welding certifications. In addition, the degree offers coursework in some of the soft skilled and tangible areas of liberal arts. This curriculum path takes advantage of affordable cost offerings and combines high school practical experience with college level classroom opportunities.

Careers

Careers related to your program of study:

- Pipefitter
- Production Manager
- Welder
- Welding Manager
- Welding Procurement
- Welding Sales

Contact

Program Coordinator

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Division

Business & STEM
716-614-6410

Visit full catalog for specific course offerings for each semester:

<https://sunyniagara.edu/courses/welding-technology-a-s/>
<https://tinyurl.com/j3acy9u8>

Program Requirements

First Semester

Credits

Health/Physical Education elective	1
TEC 105 - Basic Skills for Technology	3
WLD 100 - Introduction to Welding and Blueprints	3
WLD 110/L - Electrical Arc Welding Process w/ Lab	4
WLD 120/L - Thermal Cutting w/ Lab	2
WLD 130/L - Welding Safety - OSHA w/ Lab	2

Total Credit Hours: 15 Cr.

Second Semester

ENG 101 - Writing I	3
MAT 110 - Intermediate Algebra	4
MET 125 - Processes	3
TEC 110 - Introduction to Technical Calculations	1
WLD 140/L - Gas Metal Arc Welding Processes w/ Lab	2
WLD 150 - Welding Metallurgy	3
Total Credit Hours:	16 Cr.

Third Semester

CHE 100 - Fundamentals of Chemistry	3
CHE 101L - Fundamentals of Chemistry Lab	1
ECO 102 - Microeconomics	3
WLD 210/L - Tig Welding Processes w/ Lab	3
WLD 220/L - Metal Fabrication w/ Lab	2
WLD 230/L - Welding Inspections and Quality Control w/ Lab	2
Total Credit Hours:	14 Cr.

Fourth Semester

___ ___ - Diversity: Equity, Inclusion & Social Justice General Education elective that also fulfills a Liberal Arts elective	3
___ ___ - Communication – Oral General Education approved elective	3
WLD 240/L – Adv. Electric Arc Welding Processes w/ Lab	4
WLD 250/L - Welding Certification w/ Lab	4
WLD 260/L - Capstone Project w/ Lab	2
Total Credit Hours:	16 Cr.

The information provided is subject to change throughout the academic year. 3/9/2026