



Academic & Career **PATHWAYS**

Associate of Applied Science (A.A.S.) Welding Technology & Management Part-Time Advising Guide

We teach shielded metal arc welding, MIG welding, TIG welding, pipe welding, flame cutting, and plasma cutting. Your coursework will include interpreting blueprints, electrical fundamentals, welding metallurgy and American Welding Society electrode classifications.

You will use equipment and techniques used in the industry and build a foundation to enter the workforce. Our programs prepare students for AWS Level 1 and Level 2 certification.

| | Course | Degree Requirements Met | Credits | Action Steps |
|-------------------------------|--|-------------------------------|----------|--|
| Semester 1 | | | | |
| <input type="checkbox"/> | WELD 110_ Welding Industry Fundamentals | Program Requirement | 3 | ▪ Meet with Student Success Advisor to build degree plan |
| <input type="checkbox"/> | WELD 120_ Thermal Cutting Processes Lecture or WELD 121_ Thermal Cutting Processes Lab | Program Requirement | 3 | |
| | WELD 130_ Technical Mathematics I | Program Requirement | 3 | |
| Total Semester Credits | | | 9 | |
| Semester 2 | | | | |
| <input type="checkbox"/> | WELD 150_ Gas Metal Arc Welding I (GMAW) Lecture or WELD 151_ Gas Metal Arc Welding I (GMAW) Lab | Program Requirement | 3 | ▪ Meet with Student Success Advisor |
| | WELD 160_ Gas Tungsten Arc Welding I (GTAW) Lecture or WELD 161_ Gas Tungsten Arc Welding I (GTAW) Lab | Program Requirement | 3 | |
| <input type="checkbox"/> | MATH 103_ Technical Mathematics I | General Education Requirement | 3 | |
| Total Semester Credits | | | 9 | |
| Semester 3 | | | | |
| <input type="checkbox"/> | WELD 140_ Shielded Metal Arc Welding I (SMAW) Lecture or WELD 141_ Shielded Metal Arc Welding I (SMAW) Lab | Program Requirement | 3 | ▪ Meet with Student Success Advisor |
| | WELD 270_ Flux Core Arc Welding I (FCAW) Lecture or WELD 271_ Flux Core Arc Welding I (FCAW) Lab | Program Requirement | 3 | |
| <input type="checkbox"/> | WELD 110_ Welding Industry Fundamentals | Program Requirement | 3 | |
| | WELD 120_ Thermal Cutting Processes Lecture or WELD 121_ Thermal Cutting Processes Lab | Program Requirement | 3 | |
| <input type="checkbox"/> | WELD 130_ Trigonometry | Program Requirement | 3 | |
| Total Semester Credits | | | 9 | |
| Semester 4 | | | | |



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|--|--|---------------------------------|--------|---|
| <input type="checkbox"/> | ENGL 101_ Composition & Reading I | General Education Requirement | 3 | <ul style="list-style-type: none">▪ Meet with Student Success Advisor▪ Complete Civics Exam with 70% or higher |
| <input type="checkbox"/> | WELD 250_ Gas Metal Arc Welding II (GMAW) Lecture or WELD 251_ Gas Metal Arc Welding II (GMAW) Lab | Program Requirement | 3 | |
| | WELD 260_ Gas Tungsten Arc Welding II (GTAW) Lecture or WELD 261_ Gas Tungsten Arc Welding II (GTAW) Lab | Program Requirement | 3 | |
| Total Semester Credits | | | 9 | |
| Semester 5 | | | | |
| <input type="checkbox"/> | WELD 290_ Management Skills for the Trades | Program Requirement | 3 | <ul style="list-style-type: none">▪ Meet with Student Success Advisor |
| <input type="checkbox"/> | CIMM 201_ Metallurgy | Program Requirement | 3 | |
| <input type="checkbox"/> | WELD 240_ Shielded Metal Arc Welding II (SMAW) Lecture or WELD 241_ Shielded Metal Arc Welding II (SMAW) Lab | Program Requirement | 3 | |
| Total Semester Credits | | | 9 | |
| Semester 6 | | | | |
| <input type="checkbox"/> | General Education Requirement Options List | General Education Requirement | 3 | <ul style="list-style-type: none">▪ Meet with Student Success Advisor▪ Meet with Career Center |
| <input type="checkbox"/> | General Education Elective | General Education Elective | 3 | |
| <input type="checkbox"/> | MATH 104_ Technical Mathematics II if needed | General Education Requirement | 1 | |
| Total Semester Credits | | | 6-9 | |
| Semester 7 | | | | |
| <input type="checkbox"/> | SPAN 100_ Beginning Occupational Spanish | Program Requirement | 3 | <ul style="list-style-type: none">▪ Meet with Student Success Advisor |
| <input type="checkbox"/> | COMM 100_ Fundamentals of Speech | Program Requirement | 3 | |
| <input type="checkbox"/> | EHSS 111_ Introduction to Health and Safety for General Industry | Program Requirement | 0-3* | |
| Total Semester Credits | | | | |
| Semester 8 | | | | |
| <input type="checkbox"/> | Program Elective | (General Education Requirement) | 3 | <ul style="list-style-type: none">▪ Meet with Student Success Advisor |
| Total Semester Credits | | | 3 | |
| Credits Required for A.A.S. Degree | | | 60-63* | |
| *The A.A.S. in Welding Technology & Management requires a minimum of 60-63* total credits to graduate. When selecting a course from multiple options, please consider the number of credits for each course to ensure meeting the minimum requirements for graduation. | | | | |

This Pathway Map is an advising tool designed for part-time students and identifies course recommendations for timely degree completion. All pathway maps can be modified to fit the individual needs of students. All students are encouraged to meet with their success advisor to develop an individualized completion plan that best meets their goals, interests, and objectives. Degree requirements and prerequisite information can be found here: [Welding Technology & Management - A.A.S. Degree](#)

Please note:

Courses may require a prerequisite or appropriate placement, see the [Academic Catalog](#) for additional information.