

WELDING TECHNOLOGY, ASSOCIATE IN SCIENCE DEGREE

Banner Code: 1_AS_WELD

Control Number: 03982

Financial Aid Eligible

The Certificate of Achievement program in Welding Technology is for those who desire advanced knowledge of welding for employment as welding technicians.

Welding inspectors, welding engineers, welding supervisors, and advanced welders. Students also completing the required general education requirements and electives may earn the Associate in Science degree. In addition, many OCC welding courses are transferable and can be used by those students who are interested in the welding engineering degree program at Ohio State University. Whatever the case, a person's chances for the job of their choice are much higher when they have the technical background as evidenced by earning our Certificate of Achievement in welding.

Complete the Welding Certificate of Achievement and the Associate in Science graduation requirements as outlined in the Graduation Requirements section of the catalog.

Program Outcomes

1. Acquire the necessary skills training for proficiency in taking a welding qualification test for certification which may be required for employment.
2. Improve or develop additional proficiencies required for professional growth or advancement in their current employment.

Review Graduation Requirements (<https://catalog.cccd.edu/orange-coast/graduation-requirements/associate-degree/>) and General Education (<https://catalog.cccd.edu/orange-coast/general-education-patterns/>).

Course	Title	Units
Required Courses		
ENGL A100	Freshman Composition	3
WELD A100 or WELD A101	Arc & Oxy-acetylene Welding	3-4
WELD A120	Mathematics & Fabrication Layout for Welders	4
WELD A180 or MACH A120	Blueprint Reading	2-3
WELD A200 or WELD A201	Advanced Welding	3-4
WELD A210	Welding Inspection and Testing	4
WELD A220	Welding Specifications and Codes	2
WELD A230	Welding Metallurgy	3
<i>Restricted Electives - Select one of the following:</i>		
WELD A130	Gas Tungsten Arc Welding Level 1	3
WELD A131	Gas Tungsten Arc Welding Level 2	3

Course	Title	Units
WELD A250	Pipe Welding Level 1	
WELD A251	Pipe Welding Level 2	
WELD A252	Pipe Welding Level 3	
WELD A253	Pipe Welding Level 4	
Total Units		27-30

Requirement	Units
Program Major Units	27-30
AS General Education Option 1, 2, or 3	Varies
Transferable electives to satisfy unit requirement	Varies
Total Minimum Degree Units	60

Welding Technology Suggested Electives

WELD A115 Arc and Oxy-acetylene Welding Practice Level 1
WELD A215 Advanced Arc and Oxy-Acetylene Level 1
WELD A255 Orbital Welding Level 1

Program Sequence

These sequences at Orange Coast College are general course curriculum maps for students to finish all major and general education requirements for two-year completion of degrees, and/or fulfillment of transfer requirements. The course sequence may include course prerequisites and other placement requirements. **Students are advised to meet with an Orange Coast College Counselor to review course selections and sequences to ensure that completion of this program will meet a student's transfer and career goals.**

Some courses in this program may be offered once per academic year.

Course	Title	Units
Year 1		
Semester 1		
WELD A100 or WELD A101	Arc & Oxy-acetylene Welding or Arc & Oxy-acetylene Welding	3-4
ENGL A100	Freshman Composition	3
OCC AS GE AREA C1 - CHOOSE ONE		3
ELECTIVE (DEGREE APPLICABLE)		3
Units		12-13
Semester 2		
WELD A200 or WELD A201	Advanced Welding or Advanced Welding	3-4
WELD A230	Welding Metallurgy	3
Select one of the following or satisfy Math competency (completion of High School Algebra 2 with a "C" or better):		3-4
MATH A030 or MATH A045	Intermediate Algebra (or higher) ¹ or Combined Elementary and Intermediate Algebra	
OCC AS GE AREA A2 - CHOOSE ONE ²		3-4
OCC AS GE AREA D - CHOOSE ONE		3
Units		15-18
Summer		
MACH A120 or WELD A180	Measurement and Blueprint Reading or Blueprint Reading	2-3
WELD A220	Welding Specifications and Codes	2
Units		4-5

Course	Title	Units
Year 2		
Semester 1		
WELD A120	Mathematics & Fabrication Layout for Welders	4
AS RESTRICTED ELECTIVES - CHOOSE ONE (See Requirements)		3
OCC AS GE AREA B - CHOOSE ONE		3-4
OCC AS GE AREA C2 - CHOOSE ONE		3
ELECTIVE (DEGREE APPLICABLE)		3
Units		16-17
Semester 2		
WELD A210	Welding Inspection and Testing	4
ELECTIVE (DEGREE APPLICABLE) ³		9
Units		13
Total Units		60-66

¹ Math A030 or higher OR take 3-4 degree applicable elective units if math competency was met through completion of High School Algebra 2 with a "C" or better; *100-level Math courses satisfy AS Math Requirement and OCC AS GE AREA A2

² OCC AS GE AREA A2 - Required if 100-level MATH will not be taken to meet Math competency. If MATH A100 or higher will be taken, then needs to take 3-4 degree applicable elective units

³ VARIES TO REACH MINIMUM 60 DEGREE APPLICABLE UNITS