



Welding Advanced: Certificate



<http://catalog.ivcc.edu/guidesheet/certificate/weldingadvancedconstruction/>

This Career Pathway Plan of Study is to serve as a guide as coursework may change. Other career planning materials may be used as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals.

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	Career and Technical Courses and/or Degree Major Courses	SAMPLE Occupations Relating to This Pathway
SECONDARY	9	English I	Algebra I Geometry	Physical Science	World History	Consumer Ed, Am. Gov., Speech <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">11th grade; Take IVCC Placement test</div>		<ul style="list-style-type: none"> •Sheet metal worker •Production welder •Model or template maker •Structural Metal Fabricator •Arc Welder •Blow Torch Operator
	10	English II	Geometry Algebra II	Biology				
	11	AP English Language English III	Algebra II Pre-Calculus	Chemistry	US History		DUAL CREDIT COURSES* (see high school counselor) The following courses may be offered as dual credit at the Area Career Center & some high schools DFT 1200, WLD 1200, WLD 1201, WLD 1202, WLD 1204	
	12	English IV	Pre-Calculus Calculus	Physics				
To view detailed descriptions of the below courses, go to: http://catalog.ivcc.edu/courses/								
POSTSECONDARY	Any Fall Semester	MTH 1206** Technical Mathematics I				<u>REQUIRED COURSES</u> ALH 1221 Industrial First Aid OR HPE 1004 First Aid <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Prepares students for the AWS Certification Test</div>	<u>ANY FALL SEMESTER</u> DFT 1200* Mechanical Drafting WHS 1200 Basic Forklift Operation <u>ANY SPRING SEMESTER</u> MET 1209 Welding Metallurgy WED 2200 Welding Blueprint Reading WLD 2209 Fabrication	<u>FIRST 8 WEEKS</u> WLD 1200* Stick, Plate, Flat Arc Welding <u>LAST 8 WEEKS</u> WLD 1201* Stick, Plate, Horizontal Arc Welding <u>FIRST 8 WEEKS</u> WLD 1202* Stick, Plate, Vertical-up Arc Welding OR WLT 1202 AWS Testing WLD 1203 Stick, Plate, Vertical-down Arc Welding <u>LAST 8 WEEKS</u> WLD 2206 Gas Welding & Brazing, Flat & Horizontal <u>FIRST 8 WEEKS</u> WLD 1204* Stick, Plate, Overhead Arc Welding OR WLT 1204 AWS Testing WLD 1220 GTAW (TIG) Mild Steel <u>LAST 8 WEEKS</u> WLD 2207 OAW - Vertical Up, Overhead, & Steel Pipe WLD 2208 Cutting Torch & Plasma Arc Cutting
	Any Spring Semester							
	1st Semester							
	2nd Semester							
	3rd Semester							
	4th Semester	<u>FIRST 8 WEEKS</u> WLD 2203 Pipe, Stick, 2G Position OR WLT 2203 AWS Testing <u>LAST 8 WEEKS</u> WLD 2213 Pipe, Stick, 5G Position						

** Go to www.catalog.ivcc.edu/autosubstitutions/ to view allowed substitutions for required courses that may be offered as Dual Credit/Dual Enrollment at area high schools