



Welding Construction: Associate in Applied Science

<http://catalog.ivcc.edu/guidesheet/associate/weldingconstruction/>



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 11th grade; Take IVCC Placement test		<ul style="list-style-type: none"> • Boilermaker • Pipefitter • Ironworker • General maintenance/repair worker • Industrial machine mechanic • Millwrights • Structural metal fabricator • Fitter • Model maker • Sheet metal workers 	
	10	English II	Geometry Algebra II	Biology					
	11	AP English Language English III	Algebra II Pre-Calculus	Chemistry	US History				
	12	English IV	Pre-Calculus Calculus	Physics					
To view detailed descriptions of the below courses, go to: http://catalog.ivcc.edu/courses/									
POSTSECONDARY	13		<i>SPRING</i> MTH 1206** Technical Mathematics I		<i>SPRING</i> PSY 2200** Human Relations in the World of Work	<u>REQUIRED COURSES</u> <i>FALL</i> ALH 1221 Industrial First Aid or HPE 1004 First Aid SDT 1203 Job Seeking Skills	<i>FALL</i> DFT 1200* Mechanical Drafting WHS 1200 Basic Forklift Operation WLD 1200* Stick, Plate, Flat Arc Welding WLD 1201* Stick, Plate, Horizontal Arc Welding WLD 1202* Stick, Plate, Vertical-up Arc or WLT 1202 AWS Testing WLD 1220 GTAW (TIG) Mild Steel WLD 2206 Gas Welding & Brazing, Flat & Horizontal <i>SPRING</i> IMT 1220 Rigging Systems MET 1209 Welding Metallurgy WED 2200 Welding Blueprint Reading WLD 1203 Stick, Plate, Vertical-down Arc Welding <i>SUMMER</i> WLD 1204* Stick, Plate, Overhead Arc Welding or WLT 1204 AWS Testing		
	14	<i>FALL</i> ENG 1205** Written Communication Skills for Bus, Ind & Tech <i>SPRING</i> SPH 1204** Oral Communication Skills for Bus, Ind & Tech				<u>REQUIRED COURSES</u> <i>FALL</i> CSP 1210** Basic Computer Skills for The Workplace SDT 1203 Job Seeking Skills Elective: Humanities/Fine Arts 3 credit hours Prepares students for the AWS Certification Test	<i>FALL</i> DFT 1203 Machine Blueprint Reading WLD 2203 Pipe Stick 2G Position or WLT 2203 AWS Testing WLD 1210 GMAW (MIG) Mild Steel WLD 2213 Pipe, Stick, 5G Position <i>SPRING</i> MET 1200 Inspection, Measurement & Quality WLD 2209* Fabrication WLD 2223 Pipe, Stick, 6G Position or WLT 2223 AWS Testing WLD 2233 Pipe-stick Tig-root All Positions or WLT 2233 AWA Testing WLD 2250 Welding Internship		
** 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									