



## Welding Production: Associate in Applied Science

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



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		<ul style="list-style-type: none"> <li>•Boilermaker</li> <li>• Pipefitter</li> <li>• Ironworker</li> <li>• General maintenance/repair worker</li> <li>• Industrial machine mechanic</li> <li>•Millwrights</li> <li>• Structural metal fabricator</li> <li>• Fitter</li> <li>• Model maker</li> <li>• Sheet metal workers</li> </ul>
	10	English II	Geometry Algebra II	Biology				
	11	AP English Language English III	Algebra II Pre-Calculus	Chemistry	US History	11th grade; Take IVCC Placement test	DUAL CREDIT COURSES* (see high school counselor) The following courses may be offered as dual credit at the Area Career Center & some high schools <b>DFT 1200, WLD 1200, WLD 1209</b>	
	12	English IV	Pre-Calculus Calculus	Physics				
To view detailed descriptions of the below courses, go to: <a href="http://catalog.ivcc.edu/courses/">http://catalog.ivcc.edu/courses/</a>								
POSTSECONDARY	13		<u>SPRING</u> <b>MTH 1206**</b> Technical Mathematics I		<u>SPRING</u> <b>PSY 2200**</b> Human Relations in the World of Work	<u>REQUIRED COURSES</u>  <u>FALL</u> <b>ALH 1221</b> Industrial First Aid or <b>HPE 1004</b> First Aid	<u>FALL</u> <b>DFT 1200*</b> Mechanical Drafting <b>WHS 1200</b> Basic Forklift Operation <b>WLD 1200*</b> Stick, Plate, Flat Arc Welding <b>WLD 1209*</b> MIG(wire) Flat Arc Welding or <b>WLT 1209</b> AWS Testing <b>WLD 1210</b> GMAW (MIG) Mild Steel <b>WLD 1211</b> GMAW(MIG) Stainless Steel <b>WLD 2206</b> Gas Welding & Brazing, Flat & Horizontal <u>SPRING</u> <b>IMT 1220</b> Rigging Systems <b>MET 1209</b> Welding Metallurgy <b>WED 2200</b> Welding Blueprint Reading <b>WLD 1212</b> GMAW (MIG) Non Ferrous Alloys <u>SUMMER</u> <b>WLD 2200</b> MIG(wire) Horizontal Plate Arc Welding or <b>WLT 2200</b> AWS Testing	
	14	<u>FALL</u> <b>ENG 1205**</b> Written Communication Skills for Bus, Ind & Tech <u>SPRING</u> <b>SPH 1204**</b> Oral Communication Skills for Bus, Ind & Tech			<u>REQUIRED COURSES</u>  <u>FALL</u> <b>CSP 1210**</b> Basic Computer Skills for The Workplace <b>SDT 1203</b> Job Seeking Skills <u>SPRING</u> Elective: Humanities/Fine Arts** 3 credit hours <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-top: 5px;">Prepares students for the AWS Certification Test</div>	<u>FALL</u> <b>DFT 1203</b> Machine Blueprint Reading <b>WLD 1213</b> GMAW Pipe, All Positions <b>WLD 1220</b> GTAW (TIG) Mild Steel <b>WLD 1221</b> GTAW (TIG) Stainless Steel <b>WLD 2208</b> Cutting Torch & Plasma Arc Cutting <u>SPRING</u> <b>MET 1200</b> Inspection, Measurement & Quality <b>WLD 2209</b> Fabrication <b>WLD 1230</b> Dual Shield & Metal Core or <b>WLT 1230</b> <b>WLD 2250</b> Welding Internship                      AWS Testing		
** Go to <a href="http://www.catalog.ivcc.edu/autosubstitutions/">www.catalog.ivcc.edu/autosubstitutions/</a> to view allowed substitutions for required courses that may be offered as Dual Credit/Dual Enrollment at area high schools								2016-17