



*This Career Pathway Program of Study should serve as a guide, along with other career planning materials, as learners continue on a career path.*

Education Levels	Grade	English	Math	Science	Social Studies/ Sciences	Other Required Courses or Recommended Electives	Career & Technical Courses and/or Degree Major Courses	Employment Opportunities in Precision Welding Technology	
<b>Secondary</b>	<b>9</b>	English I Writing Language Arts	Algebra I or Pre-Algebra	Biology I or Earth Science or Physical Science	Geography or World History	Driver's ED* or Health* or P.E. or Music/Art or Foreign Language	Intro to Metals or Intro to Technology or Intro to Welding	<b>Career Options:</b> <ul style="list-style-type: none"> <li>Welder</li> <li>Fitter</li> <li>Layout</li> <li>Equipment Sales</li> </ul> <b>Career Learning Experiences:</b> <ul style="list-style-type: none"> <li>Apprenticeship</li> <li>Job shadowing</li> <li>Part-time job/ Co-op work experience</li> </ul> <b>Extracurricular Learning Experiences:</b> <ul style="list-style-type: none"> <li>Student Government</li> <li>FFA</li> <li>School-sponsored activities/organizations</li> </ul>	
	<b>10</b>	English II Writing Language Arts	Geometry or Algebra I	Chemistry or Biology I	U.S. Government* or Consumer Ed*	Driver's ED* or Health* or P.E. or Music/Art or Foreign Language	Intro to Metals or Intro to Technology or Intro to Welding		
	<b>11</b>	English III Writing Language Arts	Algebra II or Geometry	Chemistry or Biology I	U.S. History	Driver's ED* or Health* or P.E. or Music/Art or Foreign Language	<b>11th &amp; 12th Grade Course Work</b>  <b>**Welding</b>		
	<i>Complete College Placement Testing March or April of Junior Year.</i>								
	<b>12</b>	English IV	Pre-Calculus or Trigonometry	Biology I or Earth Science or Physical Science	Sociology* or **Psychology*	Driver's ED* or Health* or P.E. or Music/Art or Foreign Language			
<b>Postsecondary</b>	<i>Successfully completed dual credit/enrollment courses do not have to be repeated at postsecondary level.</i>								
	<b>13</b>	Semester 1 WLD 101 Intro to Arc Welding WLD 102 Basic Arc Welding Flat Position WLD 103 Arc Welding & Horizontal Position WLD 105 Oxy-acetylene Welding & Cutting WLD 117 Arc Welding in Vertical Position WLD 118 Arc Welding in Overhead Position MT 114 Precision Measurement <b>or</b> TMAT 101 Technical Math				Semester 2 WLD 109 Blueprint Reading for Welders WLD 120 Introduction to GMAW WLD 121 GMAW with Spray Arc Process WLD 122 GMAW Short Circuit & Spray Arc WLD 125 GTAW WLD 110 Weld Testing & Preparation WLD 210 Professional Seminar TMAT 101 Technical Math <b>or</b> MT 114 Precision Measurement			

For further information about pursuing a career in Welding Technology, visit: <http://www.bhc.edu>

**College Credit Opportunities:**  
Students should take advantage of dual-credit courses offered by BHC.

**Certificates:**

- Welding Certificate
- Shielded Metal Arc Welding Certificate
- Gas Metal Arc Welding Certificate

Information about Welding Occupations can be found at [www.bls.gov/och](http://www.bls.gov/och) or [www.bhc.edu/student-resources/career-services](http://www.bhc.edu/student-resources/career-services)

- Check with your high school counselor to explore course offerings available at the Area Career Center.

\*One Semester

\*\*Dual Credit/Dual Enrollment opportunities- students must meet college requirements to enroll.