

High School to College and Career Pathway: Secondary

Area of Study: Skilled & Technical Sciences Education



Pathway: Precision Production Trades Welding

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																			
7 th Grade	8 th Grade	Middle School	High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School																																				
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts 4.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	Language Arts 12 1.00	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <ul style="list-style-type: none"> > Certificate > Associate degree > Bachelor's degree > Professional degree > On-the-job training > Apprenticeship > Military training <p>Welding is:</p> <ul style="list-style-type: none"> > High skill > High demand > Nontraditional for females <p>Sample Occupations</p> <ul style="list-style-type: none"> > Agricultural Education Teacher > Welder/Cutter > Welding Machine Operator > Welding Teacher <p>For more information on salary projections, labor market demand, and training options, visit www.utahfutures.org.</p>																																				
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math 3.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	Additional credit 1.00																																						
Science .50	Science 1.00	1.50	Science 3.00	Earth Systems 1.00	Physics 1.00 or Physics with Technology 1.00	Additional credit 1.00																																						
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies 2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50																																					
P.E. 1.00	Health .50	1.50	P.E./Health 2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50																																							
The Arts .50	The Arts .50	1.00	Fine Arts 1.50	Fine Arts Courses 1.50																																								
			Financial Literacy .50			Financial Literacy .50																																						
Keyboarding .50			Computer Tech. .50	Computer Technology .50																																								
CTE Intro 1.00		1.00	Career and Technical Education 1.00	<p>Career and Technical Education Recommended Pathway Courses</p> <p>(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)</p> <p>CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL</p> <table border="1"> <thead> <tr> <th>Course #</th> <th>Foundation Course: (required)</th> <th>Credit</th> </tr> </thead> <tbody> <tr> <td>48.0508</td> <td>Welding Technician – Entry Level</td> <td>1.00</td> </tr> <tr> <td>48.0510</td> <td>Welding Technician – Advanced Level</td> <td>1.00</td> </tr> <tr> <td colspan="3">Elective Courses:</td> </tr> <tr> <td>15.1301</td> <td>Drafting & Design Technology</td> <td>.50</td> </tr> <tr> <td>15.1302</td> <td>CAD Drafting Technology</td> <td>.50</td> </tr> <tr> <td>15.1306</td> <td>Mechanical Drafting</td> <td>.50</td> </tr> <tr> <td>47.0105</td> <td>Basic Electronics</td> <td>.50</td> </tr> <tr> <td>48.0503</td> <td>Machine Tool</td> <td>1.00</td> </tr> <tr> <td>48.0506</td> <td>Sheet Metal</td> <td>.50</td> </tr> <tr> <td>48.0512</td> <td>Welding Technician – Expert Level</td> <td>1.00</td> </tr> <tr> <td>32.0199</td> <td>Student Internship (Critical Workplace Skills)</td> <td>.50</td> </tr> </tbody> </table>			Course #		Foundation Course: (required)	Credit	48.0508	Welding Technician – Entry Level	1.00	48.0510	Welding Technician – Advanced Level	1.00	Elective Courses:			15.1301	Drafting & Design Technology	.50	15.1302	CAD Drafting Technology	.50	15.1306	Mechanical Drafting	.50	47.0105	Basic Electronics	.50	48.0503	Machine Tool	1.00	48.0506	Sheet Metal	.50	48.0512	Welding Technician – Expert Level	1.00	32.0199	Student Internship (Critical Workplace Skills)	.50	
Course #	Foundation Course: (required)	Credit																																										
48.0508	Welding Technician – Entry Level	1.00																																										
48.0510	Welding Technician – Advanced Level	1.00																																										
Elective Courses:																																												
15.1301	Drafting & Design Technology	.50																																										
15.1302	CAD Drafting Technology	.50																																										
15.1306	Mechanical Drafting	.50																																										
47.0105	Basic Electronics	.50																																										
48.0503	Machine Tool	1.00																																										
48.0506	Sheet Metal	.50																																										
48.0512	Welding Technician – Expert Level	1.00																																										
32.0199	Student Internship (Critical Workplace Skills)	.50																																										
<p>Workforce Trends Job prospects should be excellent for skilled candidates.</p> <p>Get the Facts During the Middle Ages, the art of blacksmithing was developed and many items of iron were produced which were welded by hammering. It was not until the 19th century that welding as we know it today was invented.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>		<p>2.00 credits</p> <p>1.00 credit</p> <p>3.00 credits for completion</p>																																								
		<p>This is a nontraditional occupation for women. In 2007, 5.6 percent of the people employed in this occupation were women.</p>		<p>Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.</p>																																								

Note: For more information, talk to your school counselor.