

High School to College and Career Pathway: Secondary

Area of Study: Skilled & Technical Sciences Education



Pathway: Precision Production Trades Machine Tool

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																											
7 th Grade	8 th Grade	Middle School	Language Arts	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>Machine Tool is:</p> <ul style="list-style-type: none"> > High skill > High wage > High demand > Nontraditional for females <p>Sample Occupations</p> <ul style="list-style-type: none"> > Machine Tool Cutter > Machine Tool Teacher > Machinist > Machinery Mechanic <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>48.0503</td> <td>Machine Tool *</td> <td>1.00</td> </tr> <tr> <td colspan="3">Elective Courses:</td> </tr> <tr> <td>15.1301</td> <td>Drafting and 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>48.0508</td> <td>Welding Technician – Entry Level</td> <td>1.00</td> </tr> <tr> <td>48.0701</td> <td>Woodworking</td> <td>.50</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	48.0503	Machine Tool *	1.00	Elective Courses:			15.1301	Drafting and Design Technology	.50	15.1302	CAD Drafting Technology	.50	15.1306	Mechanical Drafting	.50	48.0508	Welding Technician – Entry Level	1.00	48.0701	Woodworking	.50	32.0199	Student Internship (Critical Workplace Skills)	.50	2.00 credits
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<p>Workforce Trends</p> <p>Despite rising productivity that is expected to limit employment growth, opportunities should be excellent because not enough qualified people are attracted to production-related occupations.</p> <p>Get the Facts</p> <p>No two countries were more responsible for the Industrial Revolution than America and England. In England, machines served to make talented artisans better. In America, machines served to make entrepreneurs more productive.</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>* Will include advanced Machine Tool courses.</p>		<p>1.00 credit</p>		3.00 credits for completion																												
<p>This is a nontraditional occupation for women. In 2007, 13.2 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.