

High School to College and Career Pathway: Secondary

Area of Study: Skilled & Technical Sciences Education



Pathway: Precision Production Trades Drafting/CAD

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>Drafting/CAD 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"> > Architectural Drafter > Civil Engineer > Computer-Aided Drafter > Drafting/CAD Teacher > Interior Designer > Landscape Designer > Mechanical Drafter > Surveyor > Urban Planner <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>Workforce Trends</p> <p>Industrial growth and increasingly complex designs will spur growth in drafting services. As technology advances, opportunities will be best for drafters with at least 2 years of post-secondary training, and computer-aided design systems experience.</p> <p>Get the Facts</p> <p>In today's technologically advanced business world, drafters must have excellent drawing and graphic skills along with a high level of computer skills.</p> <p>In Utah, an architect and a landscape architect must be licensed.</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>This is a nontraditional occupation for women. In 2007, 20.6 percent of the people employed in this occupation were women.</p>		<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 Courses: (required)</th> <th>Credit</th> </tr> </thead> <tbody> <tr> <td>15.1301</td> <td>Drafting & Design Technology</td> <td>.50</td> </tr> <tr> <td>15.1302</td> <td>Drafting/CAD</td> <td>.50</td> </tr> <tr> <td>15.1303</td> <td>Architectural Drafting</td> <td>.50</td> </tr> <tr> <td>15.1306</td> <td>Mechanical Drafting</td> <td>.50</td> </tr> <tr> <td colspan="3">Elective Courses:</td> </tr> <tr> <td>46.0201</td> <td>Carpentry 1</td> <td>1.00</td> </tr> <tr> <td>48.0503</td> <td>Machine Tool</td> <td>1.00</td> </tr> <tr> <td>48.0508</td> <td>Welding Technician, Entry Level</td> <td>.50</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> <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>					Course #	Foundation Courses: (required)	Credit	15.1301	Drafting & Design Technology	.50	15.1302	Drafting/CAD	.50	15.1303	Architectural Drafting	.50	15.1306	Mechanical Drafting	.50	Elective Courses:			46.0201	Carpentry 1	1.00	48.0503	Machine Tool	1.00	48.0508	Welding Technician, Entry Level	.50	48.0701	Woodworking	.50	32.0199	Student Internship (Critical Workplace Skills)	.50
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