



High School to College and Career Pathway: Secondary

Area of Study: Information Technology Education

Pathway: Network Systems

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>Network Systems 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"> > Information Technology Education Teacher > LAN Administrator > Network Analyst > Network Engineer > Telecommunication Manager <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	Computer Programming I 1.00																																						
Science .50	Science 1.00	1.50	Science 3.00	Earth Systems 1.00	Biological Science 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 Courses: (required)</th> <th>Credit</th> </tr> </thead> <tbody> <tr> <td colspan="3"><i>Choose 1.5 credits from the following courses:</i></td> </tr> <tr> <td>11.0410</td> <td>Certified Novell Administrator (CNA)</td> <td>1.00</td> </tr> <tr> <td>11.0420</td> <td>Cisco Certified Network Administrator (CCNA)</td> <td>1.00</td> </tr> <tr> <td>11.0430</td> <td>Microsoft Certified Professional (MCP)</td> <td>1.00</td> </tr> <tr> <td>11.0440</td> <td>Network Fundamentals</td> <td>.50</td> </tr> <tr> <td colspan="3">Elective Courses:</td> </tr> <tr> <td>11.0101</td> <td>Information Technology, Introduction</td> <td>.50</td> </tr> <tr> <td>11.9920</td> <td>A+ (Computer Maintenance)</td> <td>1.00</td> </tr> <tr> <td>11.9940</td> <td>Linux Fundamentals</td> <td>1.00</td> </tr> <tr> <td>11.0450</td> <td>Security Fundamentals</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	<i>Choose 1.5 credits from the following courses:</i>			11.0410	Certified Novell Administrator (CNA)	1.00	11.0420	Cisco Certified Network Administrator (CCNA)	1.00	11.0430	Microsoft Certified Professional (MCP)	1.00	11.0440	Network Fundamentals	.50	Elective Courses:			11.0101	Information Technology, Introduction	.50	11.9920	A+ (Computer Maintenance)	1.00	11.9940	Linux Fundamentals	1.00	11.0450	Security Fundamentals	.50	32.0199	Student Internship (Critical Workplace Skills)	.50
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<p>Workforce Trends Growth will be driven by rapid increases in the computer and data processing services industry.</p> <p>Get the Facts The term "computer bug" was coined in the 1940s, when an insect got into a relay in a primitive electromechanical computer, causing computer malfunctions.</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>Foundation courses taken beyond the required credits can be used as elective credit.</p>		<p>1.50 credits</p> <p>1.50 credits</p> <p>3.00 credits for completion</p>																																								

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