

High School to College and Career Pathway: Secondary

Area of Study: Information Technology Education



Pathway: Information Support & Services Database Development & Administration

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>Database Development & Administration 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"> > Database Administrator > Database Architect > Database Design Analyst > Database Developer > Database Engineer > Information Scientist > Information Technology Education Teacher <p>For more information on salary projections, labor market demand, and training options, visit www.utahfutures.org.</p>																											
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<p>Workforce Trends Computer systems analysts, database administrators, and computer scientists are expected to be among the fastest growing occupations through the year 2016.</p> <p>Get the Facts Information Technology workers are needed in nearly every industry. The demand for technically skilled workers is growing in almost every industry, not just in those considered high-tech.</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>																																	

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

High School to College and Career Pathway: Secondary

Area of Study: Information Technology Education



Pathway: Interactive Media Digital Media (Multimedia)

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<p>Workforce Trends Multimedia is the field of the future and is rapidly growing. Because our global economy is driven by technology, multimedia has become one of the most in-demand fields around. With nearly 75% of Americans using the Internet and over 107 million domains registered worldwide, the demand for individuals skilled in interactive media is high.</p> <p>Get the Facts Multimedia programs combine art and technology to present text, images and sound in digital form.</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>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Course #</th> <th>Foundation Courses: (required)</th> <th>Credit</th> </tr> </thead> <tbody> <tr> <td>11.0210</td> <td>Digital Media I</td> <td>1.00</td> </tr> <tr> <td colspan="3" style="text-align: center;"><i>Choose one of the following courses:</i></td> </tr> <tr> <td>11.0211</td> <td>Digital Media II</td> <td>1.00</td> </tr> <tr> <td>11.0215</td> <td>3D Graphics</td> <td>.50</td> </tr> <tr> <td>11.0216</td> <td>3D Animation</td> <td>.50</td> </tr> <tr> <td colspan="3" style="text-align: center;">Elective Courses:</td> </tr> <tr> <td>11.0101</td> <td>Information Technology, Introduction</td> <td>.50</td> </tr> <tr> <td>11.0201</td> <td>Computer Programming I</td> <td>1.00</td> </tr> <tr> <td>11.0230</td> <td>Web Development I</td> <td>1.00</td> </tr> <tr> <td>52.0254</td> <td>Business Web Design</td> <td>.50</td> </tr> <tr> <td>52.0264</td> <td>Business Web Design, Advanced</td> <td>.50</td> </tr> <tr> <td>08.0802</td> <td>e-Commerce</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 Courses: (required)	Credit	11.0210	Digital Media I	1.00	<i>Choose one of the following courses:</i>			11.0211	Digital Media II	1.00	11.0215	3D Graphics	.50	11.0216	3D Animation	.50	Elective Courses:			11.0101	Information Technology, Introduction	.50	11.0201	Computer Programming I	1.00	11.0230	Web Development I	1.00	52.0254	Business Web Design	.50	52.0264	Business Web Design, Advanced	.50	08.0802	e-Commerce	.50	32.0199	Student Internship (Critical Workplace Skills)	.50	2.00 credits		1.00 credit		3.00 credits for completion
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High School to College and Career Pathway: Secondary

Area of Study: Information Technology Education



Pathway: Interactive Media Web Development & Administration

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<p>Workforce Trends The World Wide Web has changed the way we communicate and consume information. Millions of Web pages already exist, with more in the works. However, most people don't possess the technical know-how to launch an eye-catching Web site. That's the reason so many self-employed Web site designers are taking advantage of plentiful opportunities in this line of work.</p> <p>Get the Facts The American Institute of Graphic Arts reports that nine out of 10 artists have a college degree, most with a major in graphic design.</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>Career and Technical Education Recommended Pathway Courses (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>11.0230</td> <td>Web Development I</td> <td>1.00</td> </tr> <tr> <td colspan="3"><i>Choose one of the following courses:</i></td> </tr> <tr> <td>11.0201</td> <td>Computer Programming</td> <td>1.00</td> </tr> <tr> <td>11.0210</td> <td>Digital Media I</td> <td>1.00</td> </tr> <tr> <td>11.0801</td> <td>Web Development II</td> <td>1.00</td> </tr> <tr> <td colspan="3">Elective Courses:</td> </tr> <tr> <td>52.0264</td> <td>Business Web Design, Advanced</td> <td>.50</td> </tr> <tr> <td>11.0101</td> <td>Information Technology, Introduction</td> <td>.50</td> </tr> <tr> <td>11.0301</td> <td>Database Development I</td> <td>1.00</td> </tr> <tr> <td>08.0802</td> <td>e-Commerce</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	11.0230	Web Development I	1.00	<i>Choose one of the following courses:</i>			11.0201	Computer Programming	1.00	11.0210	Digital Media I	1.00	11.0801	Web Development II	1.00	Elective Courses:			52.0264	Business Web Design, Advanced	.50	11.0101	Information Technology, Introduction	.50	11.0301	Database Development I	1.00	08.0802	e-Commerce	.50	32.0199	Student Internship (Critical Workplace Skills)	.50	<p>2.00 credits</p> <p>1.00 credit</p> <p>3.00 credits for completion</p>
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High School to College and Career Pathway: Secondary

Area of Study: Information Technology Education

Pathway: Network Systems

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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>																																								

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High School to College and Career Pathway: Secondary

Area of Study: Information Technology Education

Pathway: Programming/Software Development

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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>11.0201</td> <td>Computer Programming I</td> <td>1.00</td> </tr> <tr> <td colspan="3">Choose one of the following courses:</td> </tr> <tr> <td>11.0202</td> <td>Computer Programming II</td> <td>1.00</td> </tr> <tr> <td>11.0301</td> <td>Database Development I</td> <td>1.00</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>11.0210</td> <td>Digital Media I</td> <td>1.00</td> </tr> <tr> <td>11.0230</td> <td>Web Development I</td> <td>1.00</td> </tr> <tr> <td>32.0199</td> <td>Student Internship (Critical Workplace Skills)</td> <td>.50</td> </tr> </tbody> </table> <p>2.00 credits (for Foundation and Elective courses)</p> <p>1.00 credit (for Student Internship)</p> <p>3.00 credits for completion</p>					Course #	Foundation Courses: (required)	Credit	11.0201	Computer Programming I	1.00	Choose one of the following courses:			11.0202	Computer Programming II	1.00	11.0301	Database Development I	1.00	Elective Courses:			11.0101	Information Technology, Introduction	.50	11.0210	Digital Media I	1.00	11.0230	Web Development I	1.00	32.0199	Student Internship (Critical Workplace Skills)	.50
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Workforce Trends Demand for programmers to help organizations keep up with changing technology will continue. Prospects should be best for college graduates with knowledge of various programming languages and tools; those with less formal education or work experience should face keen competition.		Core Curriculum and elective requirements may vary district to district. Check with your school counselor.		<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>																																		
Get the Facts A 3D graphics programmer must have a firm grasp of advanced mathematical concepts.		Concurrent enrollment course offerings vary by school and district.																																				
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Note: For more information, talk to your school counselor.