



# High School to College and Career Pathway: Secondary

Area of Study: Agricultural Education

## Pathway: Natural Resources Science & Management

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																			
7 <sup>th</sup> Grade	8 <sup>th</sup> Grade	Middle School	High School	9 <sup>th</sup> Grade Suggested	10 <sup>th</sup> Grade Suggested	11 <sup>th</sup> Grade Suggested	12 <sup>th</sup> 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"> <li>&gt; Certificate</li> <li>&gt; Associate degree</li> <li>&gt; Bachelor's degree</li> <li>&gt; Professional degree</li> <li>&gt; On-the-job training</li> <li>&gt; Apprenticeship</li> <li>&gt; Military training</li> </ul> <p><b>Natural Resources Science &amp; Management is:</b></p> <ul style="list-style-type: none"> <li>&gt; High skill</li> <li>&gt; High wage</li> <li>&gt; Nontraditional for females</li> </ul> <p><b>Sample Occupations</b></p> <ul style="list-style-type: none"> <li>&gt; Agricultural Education Teacher</li> <li>&gt; Fish &amp; Game Officer</li> <li>&gt; Fish Hatchery Manager</li> <li>&gt; Forest Worker</li> <li>&gt; Mining Engineer</li> <li>&gt; Outfitter/Guide</li> <li>&gt; Park Manager</li> <li>&gt; Water Technician</li> <li>&gt; Wildlife Firefighter</li> <li>&gt; Wildlife Officer</li> </ul> <p>For more information on salary projections, labor market demand, and training options, visit <a href="http://www.utahfutures.org">www.utahfutures.org</a>.</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	Biology–Agricultural Science or Biological Science 1.00	Plant and Soil Science or Aquaculture 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><b>Career and Technical Education Recommended Pathway Courses</b></p> <p>(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)</p> <p><b>CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #e6f2ff;">Course #</th> <th style="background-color: #e6f2ff;">Foundation Courses: (required)</th> <th style="background-color: #e6f2ff;">Credit</th> </tr> </thead> <tbody> <tr> <td>03.0111</td> <td>Natural Resource Science I</td> <td>1.00</td> </tr> <tr> <td>03.0121</td> <td>Natural Resource Science II</td> <td>1.00</td> </tr> <tr> <td colspan="3" style="background-color: #e6f2ff;"><b>Elective Courses:</b></td> </tr> <tr> <td>01.0111</td> <td>Agricultural Business Management</td> <td>1.00</td> </tr> <tr> <td>01.0311</td> <td>Agricultural Science I</td> <td>1.00</td> </tr> <tr> <td>01.0351</td> <td>Aquaculture, Introductory</td> <td>1.00</td> </tr> <tr> <td>01.0361</td> <td>Aquaculture, Advanced</td> <td>1.00</td> </tr> <tr> <td>01.0802</td> <td>Ag. Communications &amp; Leadership (capstone)</td> <td>1.00</td> </tr> <tr> <td>32.0199</td> <td>Student Internship (Critical Workplace Skills)</td> <td>.50</td> </tr> <tr> <td>01.0100</td> <td>Summer Agriculture Program</td> <td>.25</td> </tr> <tr> <td colspan="3" style="background-color: #e6f2ff;">Supervised Agriculture Experience Program (capstone experience)</td> </tr> </tbody> </table>					Course #	Foundation Courses: (required)	Credit	03.0111	Natural Resource Science I	1.00	03.0121	Natural Resource Science II	1.00	<b>Elective Courses:</b>			01.0111	Agricultural Business Management	1.00	01.0311	Agricultural Science I	1.00	01.0351	Aquaculture, Introductory	1.00	01.0361	Aquaculture, Advanced	1.00	01.0802	Ag. Communications & Leadership (capstone)	1.00	32.0199	Student Internship (Critical Workplace Skills)	.50	01.0100	Summer Agriculture Program	.25	Supervised Agriculture Experience Program (capstone experience)		
Course #	Foundation Courses: (required)	Credit																																										
03.0111	Natural Resource Science I	1.00																																										
03.0121	Natural Resource Science II	1.00																																										
<b>Elective Courses:</b>																																												
01.0111	Agricultural Business Management	1.00																																										
01.0311	Agricultural Science I	1.00																																										
01.0351	Aquaculture, Introductory	1.00																																										
01.0361	Aquaculture, Advanced	1.00																																										
01.0802	Ag. Communications & Leadership (capstone)	1.00																																										
32.0199	Student Internship (Critical Workplace Skills)	.50																																										
01.0100	Summer Agriculture Program	.25																																										
Supervised Agriculture Experience Program (capstone experience)																																												
<p><b>Workforce Trends</b></p> <p>Utah has a wealth of natural resources, which includes five national parks, seven national monuments, seven national forests, two national recreation areas, 45 state parks, and millions of acres of Bureau of Land Management (BLM)-administered deserts and range land. With the multitude of natural resources in Utah there are a vast amount of career opportunities within eight federal and state divisions.</p> <p><b>Get the Facts</b></p> <p>There are 600 bison that roam on Antelope Island State Park, the largest island in the Great Salt Lake; the island herd is the second oldest privately held herd in the United States. Today, the bison on the island are among the most sought-after bison in the country.</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 credits</p> <p><b>3.00 credits for completion</b></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.