



# High School to College and Career Pathway: Secondary

Area of Study: Agricultural Education

## Pathway: Horticulture 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>Horticulture Science &amp; Management is:</b></p> <ul style="list-style-type: none"> <li>&gt; High demand</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; Arborist</li> <li>&gt; Botanist</li> <li>&gt; Forest Geneticist</li> <li>&gt; Golf Course Superintendent</li> <li>&gt; Greenhouse Operator</li> <li>&gt; Landscape Architect</li> <li>&gt; Plant Breeder</li> <li>&gt; Soil &amp; Water Specialist</li> <li>&gt; Tree Surgeon</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 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"> <thead> <tr> <th>Course #</th> <th>Foundation Courses: (required)</th> <th>Credit</th> </tr> </thead> <tbody> <tr> <td>01.0631</td> <td>Floriculture &amp; Greenhouse Management</td> <td>1.00</td> </tr> <tr> <td>01.0641</td> <td>Nursery Operation &amp; Landscape Management</td> <td>1.00</td> </tr> <tr> <td></td> <td><b>Elective Courses:</b></td> <td></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>01.0651</td> <td>Ornamental Horticulture, Applied</td> <td>1.00</td> </tr> <tr> <td>01.0631</td> <td>Floriculture &amp; Greenhouse Management A</td> <td>.50</td> </tr> <tr> <td>01.0631</td> <td>Floriculture &amp; Greenhouse Management B</td> <td>.50</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></td> <td>Supervised Agriculture Experience Program (capstone experience)</td> <td></td> </tr> </tbody> </table>					Course #	Foundation Courses: (required)	Credit	01.0631	Floriculture & Greenhouse Management	1.00	01.0641	Nursery Operation & Landscape Management	1.00		<b>Elective Courses:</b>		01.0111	Agricultural Business Management	1.00	01.0311	Agricultural Science I	1.00	01.0651	Ornamental Horticulture, Applied	1.00	01.0631	Floriculture & Greenhouse Management A	.50	01.0631	Floriculture & Greenhouse Management B	.50	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)	
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<p><b>Workforce Trends</b></p> <p>According to the U.S. Department of Labor, positions in landscape and horticultural services are expected to increase at a fast pace.</p> <p><b>Get the Facts</b></p> <p>24 million, or 17% of the American workforce, is employed in the agricultural industry.</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>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>				<p>2.00 credits</p> <p>1.00 credits</p> <p>3.00 credits for completion</p>																																							

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