

High School to College and Career Pathway: Secondary

Area of Study: Agricultural Education



Pathway: Agricultural Systems Technology

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																									
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Workforce Trends According to the U.S. Department of Labor, the growing interest in worldwide standardization of agricultural equipment should result in increased employment of agricultural engineers. Job opportunities should also result from the increasing demand for agricultural products, the continued efforts for more efficient agricultural production, and the increasing emphasis on the conservation of resources.		Core Curriculum and elective requirements may vary district to district. Check with your school counselor. Concurrent enrollment course offerings vary by school and district.			<p>2.00 credits</p> <p>1.00 credits</p> <p>3.00 credits for completion</p>																																													
Get the Facts Students enrolled in high school agricultural courses are looking to join a \$3.5-4.0 billion Utah industry.																																																		

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



High School to College and Career Pathway: Secondary

Area of Study: Agricultural Education

Pathway: Natural Resources Science & Management

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Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math 2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit—class of 2011)			
Science .50	Science 1.00	1.50	Science 2.00	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			
Keyboarding .50	/		/	Computer Technology .50		/			
CTE Intro 1.00	/		/	Career and Technical Education Recommended Pathway Courses					
<p>Workforce Trends</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>Get the Facts</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>		(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)					<div style="font-size: 2em;">}</div> 2.00 credits <div style="font-size: 2em;">}</div> 1.00 credits <div style="font-size: 2em;">}</div> 3.00 credits for completion
				CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL					
				Course #	Foundation Courses: (required)	Credit			
				03.0111	Natural Resource Science I	1.00			
				03.0121	Natural Resource Science II	1.00			
				Elective Courses:					
				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							
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Note: For more information, talk to your school counselor.



High School to College and Career Pathway: Secondary

Area of Study: Agricultural Education

Pathway: Production/Processing Animal Science

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Get the Facts Agriculture is a vital industry to Utah's economy. There are 15,000 farms in the state, totaling approximately 11.6 million acres, where Utah agriculturists produce crops and livestock worth nearly \$1 billion annually.		Concurrent enrollment course offerings vary by school and district.																																																									
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Pathway: Production/Processing Plant & Soil Science

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Workforce Trends Agronomy is a specialized field where many agronomists are independent consultants. Get the Facts About 17% of all U.S. agricultural products are exported yearly, including 99 million tons of grains and feed and 2 million tons of fresh vegetables.		Core Curriculum and elective requirements may vary district to district. Check with your school counselor. Concurrent enrollment course offerings vary by school and district.		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.				2.00 credits 1.00 credits 3.00 credits for completion	Sample Occupations > Agricultural Education Teacher > Agronomist > Agronomy Department Manager > Agronomy Production Specialist > Agronomy Tech. Specialist > Plant Pathologist > Seed Sales Manager																													

Beyond High School

There are a number of options for education and training beyond high school, depending on your career goals.

- > Certificate
- > Associate degree
- > Bachelor's degree
- > Professional degree
- > On-the-job training
- > Apprenticeship
- > Military training

Sample Occupations

- > Agricultural Education Teacher
- > Agronomist
- > Agronomy Department Manager
- > Agronomy Production Specialist
- > Agronomy Tech. Specialist
- > Plant Pathologist
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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>01.0311</td> <td>Agricultural Science I</td> <td>1.00</td> </tr> <tr> <td>01.0321</td> <td>Agricultural Science II</td> <td>1.00</td> </tr> <tr> <td colspan="3">Elective Courses:</td> </tr> <tr> <td>01.0111</td> <td>Agricultural Business Management</td> <td>1.00</td> </tr> <tr> <td>01.0331</td> <td>Agricultural Science III</td> <td>1.00</td> </tr> <tr> <td>02.0211</td> <td>Animal Science I</td> <td>1.00</td> </tr> <tr> <td>02.0241</td> <td>Animal Science II</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>02.0251</td> <td>Dairy Herd Management</td> <td>1.00</td> </tr> <tr> <td>02.0221</td> <td>Equine Science</td> <td>1.00</td> </tr> <tr> <td>02.0411</td> <td>Plant and Soil Science I</td> <td>1.00</td> </tr> <tr> <td>02.0421</td> <td>Plant and Soil Science II</td> <td>1.00</td> </tr> <tr> <td>02.0261</td> <td>Swine Herd Management</td> <td>1.00</td> </tr> <tr> <td>02.0231</td> <td>Veterinary Assistant</td> <td>1.00</td> </tr> <tr> <td>02.0235</td> <td>Veterinary Technician</td> <td>1.00</td> </tr> <tr> <td>01.0802</td> <td>Ag. Communications & 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	01.0311	Agricultural Science I	1.00	01.0321	Agricultural Science II	1.00	Elective Courses:			01.0111	Agricultural Business Management	1.00	01.0331	Agricultural Science III	1.00	02.0211	Animal Science I	1.00	02.0241	Animal Science II	1.00	01.0351	Aquaculture, Introductory	1.00	01.0361	Aquaculture, Advanced	1.00	02.0251	Dairy Herd Management	1.00	02.0221	Equine Science	1.00	02.0411	Plant and Soil Science I	1.00	02.0421	Plant and Soil Science II	1.00	02.0261	Swine Herd Management	1.00	02.0231	Veterinary Assistant	1.00	02.0235	Veterinary Technician	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)	
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<p>Workforce Trends</p> <p>According to the Utah Farm Bureau Federation, more than 100,000 people are employed by agriculture and agribusiness in the state of Utah.</p> <p>Get the Facts</p> <p>Farmers and ranchers provide food and habitat for 75% of the nation's wildlife. One-fourth of the world's grain, milk, and eggs are produced in the United States.</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>																																																																			

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