



High School to College and Career Pathway: Secondary

Area of Study: Agricultural Education

Pathway: Production/Processing Animal Science

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>Production/Processing Animal Science is:</p> <ul style="list-style-type: none"> > High skill > High wage > Nontraditional for females <p>Sample Occupations</p> <ul style="list-style-type: none"> > Agricultural Education Teacher > Animal Geneticist > Animal Nutritionist > Animal Scientist > Animal Technician > Aquaculturalist > Feed Sales Rep. > Herdsman > Livestock Inspector > Veterinarian > Veterinary Tech. <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	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	Agricultural Science I 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>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 colspan="3">Elective Courses:</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>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>02.0261</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> <p>2.00 credits</p> <p>1.00 credits</p> <p>3.00 credits for completion</p>			Course #		Foundation Courses: (required)	Credit	02.0211	Animal Science I	1.00	02.0241	Animal 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	02.0251	Dairy Herd Management	1.00	02.0221	Equine Science	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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Workforce Trends Agriculture is the nation's largest employer, with more than 21 million people working in some phase of the industry, from growing food and fiber to selling it in the supermarkets.		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 Agriculture is a vital industry to Utah's economy. There are 16,500 farms in the state, totaling approximately 11.1 million acres, where Utah agriculturists produce crops and livestock worth nearly \$1 billion annually.		Concurrent enrollment course offerings vary by school and district.																																																									

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