

High School to College and Career Pathway: Secondary

Career and Technical Education: Preparing Students for College and Career!



Area of Study: Agricultural Education

Pathway: Production/Processing Science

Get the Facts
Farmers and ranchers provide food and habitat for 75 percent of the nation's wildlife. One-fourth of the world's beef and one-fifth of the world's grain, milk, and eggs are produced in the United States.

Workforce Trends
According to the Utah Farm Bureau Federation, more than 100,000 people are employed by agriculture and agribusiness in the state of Utah.

CAREER AND TECHNICAL EDUCATION
Recommended Pathway Courses
(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)

CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL

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
02.0112	Biology-Agricultural Science	1.00
02.0251	Dairy Herd Management	1.00
02.0221	Equine Science	1.00
02.0222	Equine Science A	.50
02.0223	Equine Science B	.50
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	Agricultural Communication and Leadership (capstone)	1.00
32.0199	Student Internship (Critical Workplace Skills)	.50
01.0100	Summer Agriculture Program	.25
Supervised Agriculture Experience Program (capstone experience)		

2.00 credits

1.00 credit

3.00 credits for completion

Production/Processing Science is:

- > High skill
- > High wage
- > High demand
- > Nontraditional for females

Sample Career Occupations

- > Ag. Commodity Broker
- > Ag. Economist
- > Ag. Ed. Teacher
- > Ag. Journalist
- > Ag. Lender
- > Ag. Loan Officer
- > Ag. Marketing Specialist
- > Ag. Products Buyer
- > Farm/Ranch Manager
- > Feed/Farm Supply Mgr.
- > Livestock Buyer/Seller
- > Meat Inspector
- > Pesticide Applicator
- > Produce Buyer

Middle School		State Requirements		High School Suggested Education Plan				College and Career
7th Grade	8th Grade	Middle School	High School	9th Grade Suggested	10th Grade Suggested	11th Grade Suggested	12th 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>For more information on salary projections, labor market demand, and training options, visit www.utahfutures.org.</p>
Math * 1.00	Math * 1.00	2.00	Math 3.00	Math * 1.00	Math * 1.00	Math * 1.00		
Science .50	Science 1.00	1.50	Science 3.00	Earth Systems 1.00	Biology–Agricultural Science or Biological Science 1.00	Animal Science or Plant and Soil Science 1.00		
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies 3.00	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				
Keyboarding .50			Computer Tech. .50	Computer Technology .50				
CTE Intro 1.00		1.00	CTE 1.00	Refer to Career and Technical Education box above.				

* Talk to your school counselor about math requirements in the new common core curriculum. Core curriculum and elective requirements may vary district to district.

Concurrent enrollment course offerings vary by school and district. Many Utah postsecondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional postsecondary Pathways for details.