

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 Plant and Soil Science

Get the Facts

Approximately 24 percent of all U.S. agricultural products are exported yearly, including 114 million tons of grains and feed, 4 million tons of poultry meats, and 2 million tons of fresh vegetables.

Workforce Trends

Agronomy is a specialized field where many agronomists are independent consultants.



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
02.0411	Plant and Soil Science I	1.00
02.0421	Plant and Soil Science II	1.00
Elective Courses:		
01.0111	Agricultural Business Management	1.00
01.0311	Agricultural Science I	1.00
02.0112	Biology-Agricultural Science	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 Plant & Soil Science is:

- > High skill
- > Nontraditional for females

Sample Career Occupations

- > Agricultural Education Teacher
- > Agronomist
- > Agronomy Department Manager
- > Agronomy Production Specialist
- > Agronomy Technician Specialist
- > Plant Pathologist
- > Seed Sales Manager

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	Agricultural Science I 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.