

High School to College and Career Pathway: Secondary

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



Area of Study: Agricultural Education

Pathway: Horticulture Science

Get the Facts

According to the American Farm Bureau Federation, 82 million American households spend \$35.1 billion annually at lawn and garden retail outlets.

U.S. consumers spend \$44.7 billion annually on professional landscape, lawn and tree care services.

Workforce Trends

According to the U.S. Department of Labor, positions in landscape and horticultural services are projected to increase at a fast pace.



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
Choose two credits from the following courses:		
01.0631	Floriculture and Greenhouse Management	1.00
01.0632	Floriculture	.50
01.0633	Greenhouse Management	.50
01.0641	Landscape Management	.50
01.0642	Nursery Operation	.50
02.0411	Plant and Soil Science I	1.00
Elective Courses:		
02.0421	Plant Science II	1.00
01.0111	Agricultural Business Management	1.00
01.0311	Agricultural Science I	1.00
02.0112	Biology-Agricultural Science	1.00
01.0651	Ornamental Horticulture, Applied	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

Horticulture Science is:

- > High demand
- > Nontraditional for females

Sample Career Occupations

- > Agricultural Education Teacher
- > Arborist
- > Botanist
- > Forest Geneticist
- > Golf Course Superintendent
- > Greenhouse Operator
- > Landscape Architect
- > Plant Breeder
- > Soil & Water Specialist
- > Tree Surgeon

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	There are a number of options for education and training beyond high school, depending on your career goals. <ul style="list-style-type: none"> > Certificate > Associate degree > Bachelor's degree > Professional degree > On-the-job training > Apprenticeship > Military training For more information on salary projections, labor market demand, and training options, visit www.utahfutures.org .
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	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.