

# High School to College and Career Pathway: Secondary

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



## Area of Study: Agricultural Education

### Pathway: Natural Resource Systems

**Get the Facts**  
There are 600 bison that roam 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.

**Workforce Trends**  
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. In 2012, Utah's five national parks drew visitors from around the world, topping 6.5 million visits.

**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
	<i>Choose two credits from the following courses:</i>	
03.0111	Natural Resource Science I	1.00
03.0121	Natural Resource Science II	1.00
01.0351	Aquaculture, Introductory	1.00
	<b>Elective Courses:</b>	
01.0111	Agricultural Business Management	1.00
01.0802	Agricultural Communication	1.00
01.0803	Agricultural Leadership	1.00
01.0311	Agricultural Science I	1.00
01.0361	Aquaculture, Advanced	1.00
02.0112	Biology-Agricultural Science	1.00
01.0121	Farm and Ranch Management	1.00
03.0113	Natural Resource Science Semester	.50
01.0100	Summer Agriculture Program	.25
	Supervised Agriculture Experience Program (capstone experience)	
32.0199	Workplace Skills	.50

Foundation courses taken beyond the required credits can be used as elective credit.

2.00 credits

1.00 credit

3.00 credits for completion

**Natural Resource Science is:**

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

**Sample Career Occupations**

- > Agricultural Education Teacher
- > Fish & Game Officer
- > Fish Hatchery Manager
- > Forest Worker
- > Mining Engineer
- > Outfitter/Guide
- > Park Manager
- > Water Technician
- > Wildlife Firefighter
- > Wildlife Officer

With the multitude of natural resources in Utah there are a vast amount of career opportunities within eight federal and state divisions.

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"> <li>&gt; Certificate</li> <li>&gt; Associate degree</li> <li>&gt; Bachelor's degree</li> <li>&gt; Professional degree</li> <li>&gt; On-the-job training</li> <li>&gt; Apprenticeship</li> <li>&gt; Military training</li> </ul> <p>For more information on salary projections, labor market demand, and training options, visit <a href="http://www.utahfutures.org">www.utahfutures.org</a>.</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	Plant and Soil Science or Aquaculture 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 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.