

# High School to College and Career Pathway: Secondary Career and Technical Education

## Agricultural Education Pathways

Agricultural Systems  
Technology

Animal Systems

Food Production and  
Processing Systems

Natural Resource Systems

Plant Systems

### Pathway: Agricultural Systems Technology

**Foundation Courses:**  
(2.00 credits required)

Agricultural Sys. Technology 1 – 1.00  
Agricultural Sys. Technology 2 – 1.00

**Elective Courses:**  
(1.00 credit required)

- Agricultural Business Management – 1.00
- Agricultural Communication – 1.00 **OR**  
Business Communication 1  
Business Communication 2
- Agricultural Leadership – 1.00 **OR**  
Leadership Principles
- Agricultural Machinery Technology – 1.00
- Agricultural Mechanics, Advanced – 1.00

- Agricultural Science 1 – 1.00
- Biology-Agricultural Science – 1.00
- Farm and Ranch Management – 1.00
- Industrial/Agricultural Technology (IAT) – 1.00
- Welding Technician – Entry Level – 1.00
- Welding Technician – Intermediate Level – 1.00
- Welding Technician – Advanced Level – 1.00
- Summer Agriculture Program – .25
- Supervised Agriculture Experience Program  
(capstone experience)
- Workplace Skills – .50

**3.00 credits required for completion**



### Pathway: Animal Systems

**Foundation Courses:**  
(2.00 credits required)

**Choose two of the following courses:**  
Animal Science 1 – 1.00  
Animal Science 2 – 1.00  
Equine Science – 1.00  
Small and Companion Animal Sc. – 1.00  
Veterinary Assistant 1 – 1.00

**Elective Courses:**  
(1.00 credit required)




- Agricultural Business Management – 1.00
- Agricultural Communication – 1.00 **OR**  
Business Communication 1  
Business Communication 2
- Agricultural Leadership – 1.00 **OR**  
Leadership Principles
- Agricultural Science 1 – 1.00
- Aquaculture, Advanced – 1.00

- Aquaculture, Introductory – 1.00
- Biology-Agricultural Science – 1.00
- Equine Science A – .50
- Equine Science B – .50
- Veterinary Assistant 2 – 1.00
- Summer Agriculture Program – .25
- Supervised Agriculture Experience Program  
(capstone experience)
- Workplace Skills – .50

**3.00 credits required for completion**



# Agricultural Education Pathways (continued)

Pathway: Food Production and Processing Systems			
<p><b>Foundation Courses:</b> (2.00 credits required)</p> <p>Agricultural Science 1 – 1.00 Agricultural Science 2 – 1.00</p> <p><b>Or choose the following courses:</b> Animal Science 1 – 1.00 Plant and Soil Science 1 – 1.00</p>	<p><b>Elective Courses:</b> (1.00 credit required)</p> <p><input type="checkbox"/> Agricultural Business Management – 1.00 <input type="checkbox"/> Agricultural Communication – 1.00 <b>OR</b> Business Communication 1 Business Communication 2 <input type="checkbox"/> Agricultural Leadership – 1.00 <b>OR</b> Leadership Principles <input type="checkbox"/> Agricultural Science 3 – 1.00 <input type="checkbox"/> Animal Science 2 – 1.00 <input type="checkbox"/> Aquaculture, Advanced – 1.00 <input type="checkbox"/> Aquaculture, Introductory – 1.00</p>	<p><input type="checkbox"/> Biology-Agricultural Science – 1.00 <input type="checkbox"/> Equine Science – 1.00 <input type="checkbox"/> Equine Science A – .50 <input type="checkbox"/> Equine Science B – .50 <input type="checkbox"/> Farm and Ranch Management – 1.00 <input type="checkbox"/> Small and Companion Animal Science – 1.00 <input type="checkbox"/> Veterinary Assistant 1 – 1.00 <input type="checkbox"/> Veterinary Assistant 2 – 1.00 <input type="checkbox"/> Summer Agriculture Program – .25 <input type="checkbox"/> Supervised Agriculture Experience Program (capstone experience) <input type="checkbox"/> Workplace Skills – .50</p>	
<b>3.00 credits required for completion</b>			
Pathway: Natural Resource Systems			
<p><b>Foundation Courses:</b> (2.00 credits required)</p> <p><b>Choose two of the following courses:</b> Aquaculture, Introductory – 1.00 Natural Resource Science 1 – 1.00 Natural Resource Science 2 – 1.00</p>	<p><b>Elective Courses:</b> (1.00 credit required)</p> <p><input type="checkbox"/> Agricultural Business Management – 1.00 <input type="checkbox"/> Agricultural Communication – 1.00 <b>OR</b> Business Communication 1 Business Communication 2 <input type="checkbox"/> Agricultural Leadership – 1.00 <b>OR</b> Leadership Principles <input type="checkbox"/> Agricultural Science 1 – 1.00</p>	<p><input type="checkbox"/> Aquaculture, Advanced – 1.00 <input type="checkbox"/> Biology-Agricultural Science – 1.00 <input type="checkbox"/> Farm and Ranch Management – 1.00 <input type="checkbox"/> Natural Resource Science Semester – .50 <input type="checkbox"/> Summer Agriculture Program – .25 <input type="checkbox"/> Supervised Agriculture Experience Program (capstone experience) <input type="checkbox"/> Workplace Skills – .50</p>	
<b>3.00 credits required for completion</b>			
Pathway: Plant Systems			
<p><b>Foundation Courses:</b> (2.00 credits required)</p> <p><b>Choose two credits from the following courses:</b> Floriculture – .50 Floriculture and Greenhouse Mgmt. – 1.00 Greenhouse Management – .50 Landscape Management – .50 Nursery Operation – .50 Plant and Soil Science 1 – 1.00 Plant and Soil Science 2 – 1.00</p>	<p><b>Elective Courses:</b> (1.00 credit required)</p> <p><input type="checkbox"/> Agricultural Business Management – 1.00 <input type="checkbox"/> Agricultural Communication – 1.00 <b>OR</b> Business Communication 1 Business Communication 2 <input type="checkbox"/> Agricultural Leadership – 1.00 <b>OR</b> Leadership Principles <input type="checkbox"/> Agricultural Science 1 – 1.00</p>	<p><input type="checkbox"/> Biology-Agricultural Science – 1.00 <input type="checkbox"/> Farm and Ranch Management – 1.00 <input type="checkbox"/> Ornamental Horticulture, Applied – 1.00 <input type="checkbox"/> Summer Agriculture Program – .25 <input type="checkbox"/> Supervised Agriculture Experience Program (capstone experience) <input type="checkbox"/> Workplace Skills – .50</p>	
<b>3.00 credits required for completion</b>			

- > Foundation courses taken beyond the required credits can be used as elective credit.
- > Core curriculum and elective requirements may vary district to district.
- > Many CTE courses may qualify for concurrent enrollment credit, which in some cases may earn up to 1.0 credit toward Pathway completion. Talk to your school counselor about availability.
- > Many Utah postsecondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional postsecondary Pathways for details.
- > Visit [UtahCTE.org](http://UtahCTE.org) for additional information.