

**Utah Career and Technical Education  
Career Pathway Chart  
2020-2021 School Year**



**Agricultural Mechanics Systems  
CAREER PATHWAY**  
Agriculture, Food & Natural Resources  
CAREER CLUSTER

**Career Cluster: Agriculture, Food & Natural Resources**

**Career Pathway: Agricultural Mechanics Systems**

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
HIGH SCHOOL		
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.		
Agricultural Systems Technology 1+	Business Communication 2	
Biology-Agricultural Science	Leadership Principles 1*	
Business Communication 1*		
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass the following course AND one explorer course.		
Agricultural Systems Technology 2		
<b>COMPLETER COURSES:</b> To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
CTE Internship		
POSTSECONDARY:		
Utah System of Higher Education: <a href="http://ushe.edu">ushe.edu</a>   UtahMajors.org: <a href="#">Utah Majors Guide</a>		
Utah System of Technical Colleges: <a href="http://utech.edu">utech.edu</a>		

\* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals.			
	1-Year Certificate	2-Year Assoc. or Tech. Degree	4-Year Bachelor's Degree
		<ul style="list-style-type: none"> <li>&gt; Hydraulic Technician</li> <li>&gt; Maintenance Service Technician</li> <li>&gt; Welder</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Agricultural Engineer Technician</li> <li>&gt; Diesel Mechanic</li> <li>&gt; Equipment Dealer Technician</li> </ul>

Utah CTE classes are open to all qualified students without regard to race, color, national origin, sex, disability, or age.

**Student Testimonial**

“The CTE classes I took in high school, such as agricultural systems and technology, animal science, and floriculture, have given me the basic skills, knowledge and abilities to allow me to obtain employment in any of those fields.”

Colton Zilles  
Mountain Crest High School

**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Agriculture, Food & Natural Resources**

UtahCTE.org: [Fact Sheet](#)

UtahFutures.org: [Occupation/Wage Search](#)

**FFA**

is the Career and Technical Student (CTSO) Organization for students in the Agricultural Mechanics Systems Career Pathway.

[FFA.org](http://FFA.org) | [UtahFFA.org](http://UtahFFA.org)

[Utah FFA flyer](#)



**Utah Career and Technical Education  
Career Pathway Chart  
2020-2021 School Year**



**Agricultural Production Systems  
CAREER PATHWAY**  
Agriculture, Food & Natural Resources  
CAREER CLUSTER

**Career Cluster: Agriculture, Food & Natural Resources**

**Career Pathway: Agricultural Production Systems**

JUNIOR HIGH / MIDDLE SCHOOL	
College and Career Awareness	
HIGH SCHOOL	
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.	
Biology-Agricultural Science	
Business Communication 1*	
Business Communication 2	
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass the following course AND one explorer course.	
<b>COMPLETER COURSES:</b> To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.	
CTE Internship	
POSTSECONDARY:	
Utah System of Higher Education: <a href="http://ushe.edu">ushe.edu</a>   UtahMajors.org: <a href="#">Utah Majors Guide</a>	
Utah System of Technical Colleges: <a href="http://utech.edu">utech.edu</a>	

\* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals.			
	<b>1-Year Certificate</b> > Crop Scout > Pesticide Handler/Applicator > Storage and Hygiene Coord.	<b>2-Year Assoc. or Tech. Degree</b> > Agricultural Engineer Tech. > Sales Representative > Slaughter/Processor	<b>4-Year Bachelor's Degree</b> > Agricultural Inspectors > CTE Teacher > Farm/Ranch Manager

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**Student Testimonial**

“My CTE classes and my leadership experience in 4-H and FFA have laid a strong foundation on which I can build upon. I have learned crucial values, including hard work, dedication, and responsibility. I plan to go to college to complete a teaching degree.”

Kaitlin Hallam  
Spanish Fork High School

**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Agriculture, Food & Natural Resources**

UtahCTE.org: [Fact Sheet](#)

UtahFutures.org: [Occupation/Wage Search](#)

**FFA**

is the Career and Technical Student Organization (CTSO) for students in the Agricultural Production Systems Career Pathway.

[FFA.org](http://FFA.org) | [UtahFFA.org](http://UtahFFA.org)

[Utah FFA flyer](#)



**Utah Career and Technical Education  
Career Pathway Chart  
2020-2021 School Year**



**Animal & Veterinary Science  
CAREER PATHWAY**  
Agriculture, Food & Natural Resources  
CAREER CLUSTER

**Career Cluster: Agriculture, Food & Natural Resources**

**Career Pathway: Animal & Veterinary Science**

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
HIGH SCHOOL		
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.		
Animal Science 1+	Business Communication 1*	
Veterinary Assistant 1+	Business Communication 2	
Biology-Agricultural Science	Leadership Principles 1*	
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.		
<b>COMPLETER COURSES:</b> To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
CTE Internship		
POSTSECONDARY:		
Utah System of Higher Education: <a href="http://ushe.edu">ushe.edu</a>   UtahMajors.org: <a href="#">Utah Majors Guide</a>		
Utah System of Technical Colleges: <a href="http://utech.edu">utech.edu</a>		

\* concurrent enrollment course + recommended explorer course

**HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING**

There are several options for education and training beyond high school, depending on your career goals.

	<b>1-Year Certificate</b>	<b>2-Year Assoc. or Tech. Degree</b>	<b>4-Year Bachelor's Degree</b>
	<ul style="list-style-type: none"> <li>&gt; Artificial Inseminator</li> <li>&gt; Livestock Auctioneer</li> <li>&gt; Shipping Coordinator</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Herdsman</li> <li>&gt; Livestock Buyer</li> <li>&gt; Veterinary Assistant/Technologist and Technician</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Animal Nutrition Specialist</li> <li>&gt; CTE Teacher</li> <li>&gt; Farm/Ranch Manager</li> </ul>

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**Student Testimonial**

"I took many CTE classes in high school that were beneficial in preparation for my college education to become a veterinary technician. I have a passion for animals and their well-being and want to pursue a career in agriculture."

Karlie Ault  
American Fork High School

**LEARN MORE ABOUT  
OCCUPATIONS AND WAGES**

**Agriculture, Food &  
Natural Resources**

UtahCTE.org: [Fact Sheet](#)

UtahFutures.org: [Occupation/Wage Search](#)

**FFA**

is the Career and Technical Student Organization (CTSO) for students in the Animal & Veterinary Science Career Pathway.

[FFA.org](http://FFA.org) | [UtahFFA.org](http://UtahFFA.org)

[Utah FFA flyer](#)



**Utah Career and Technical Education  
Career Pathway Chart  
2020-2021 School Year**




**Food Science, Dietetics & Nutrition  
CAREER PATHWAY**  
Agriculture, Food & Natural Resources  
CAREER CLUSTER

**Career Cluster: Agriculture, Food & Natural Resources**

**Career Pathway: Food Science, Dietetics & Nutrition**

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
FCS Exploration		
HIGH SCHOOL		
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.		
Food & Nutrition 1 +	Human Development*	Medical Anatomy & Physiology
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass the following course AND one explorer course.		
Food and Nutrition 2		
<b>COMPLETER COURSES:</b> To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
Foundations of Nutrition		
CTE Internship		
POSTSECONDARY:		
Utah System of Higher Education: <a href="http://ushe.edu">ushe.edu</a>   UtahMajors.org: <a href="#">Utah Majors Guide</a>		
Utah System of Technical Colleges: <a href="http://utech.edu">utech.edu</a>		

\* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals			
	1-Year Certificate	2-Year Assoc. or Tech. Degree	4-Year Bachelor's Degree
	<ul style="list-style-type: none"> <li>&gt; Food Protections Manager</li> <li>&gt; Food Inspector Assistant</li> <li>&gt; Food Sanitation Coordinator</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Research and Development Technician</li> </ul>	<ul style="list-style-type: none"> <li>&gt; CTE Teacher</li> <li>&gt; Dietitian/Nutritionist</li> <li>&gt; Food Scientist</li> </ul>

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**Student Testimonial**

"Participating in a CTE Internship helped me to experience the reality of being a dietitian. I participated in a number of activities, including recipe construction, consultations, and food preparation."

Melissa DeFriez  
Sky View High School

**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Agriculture, Food & Natural Resources**

UtahCTE.org: [Fact Sheet](#)

UtahFutures.org: [Occupation/Wage Search](#)

**FCCLA**

is the Career and Technical Student Organization (CTSO) for students in the Food Science, Dietetics & Nutrition Career Pathway.

[FCCLAinc.org](http://FCCLAinc.org) | [UtahFCCLA.org](http://UtahFCCLA.org)

[Utah FCCLA flyer](#)



**Utah Career and Technical Education  
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**Plant Science  
CAREER PATHWAY**  
Agriculture, Food & Natural Resources  
CAREER CLUSTER

**Career Cluster: Agriculture, Food & Natural Resources**

**Career Pathway: Plant Science**

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
HIGH SCHOOL		
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.		
Biology-Agricultural Science	Business Communication 1*	
Plant & Soil Science* +	Business Communication 2	
	Leadership Principles 1*	
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.		
Floriculture & Greenhouse Mgmt		
<b>COMPLETER COURSES:</b> To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
CTE Internship		
POSTSECONDARY:		
Utah System of Higher Education: <a href="http://ushe.edu">ushe.edu</a>   UtahMajors.org: <a href="#">Utah Majors Guide</a>		
Utah System of Technical Colleges: <a href="http://utech.edu">utech.edu</a>		

\* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals.			
	<b>1-Year Certificate</b>	<b>2-Year Assoc. or Tech. Degree</b>	<b>4-Year Bachelor's Degree</b>
	<ul style="list-style-type: none"> <li>&gt; Crop Scout</li> <li>&gt; Irrigation Specialist</li> <li>&gt; Pesticide Handler/Applicator</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Arborist</li> <li>&gt; Landscape Technician</li> <li>&gt; Turf Manager</li> </ul>	<ul style="list-style-type: none"> <li>&gt; CTE Teacher</li> <li>&gt; Crop Advisor</li> <li>&gt; Landscape Designer/Architect</li> </ul>

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**Student Testimonial**

"I took my first agriculture class, which everyone assumes is strictly about farm animals, and it introduced me to plant biology. The classes took place mostly in the school greenhouse, where I learned to grow plants and flowers from seeds. This is where I found my passion."

Madyson Smith  
Sky View High School

**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Agriculture, Food & Natural Resources**

UtahCTE.org: [Fact Sheet](#)

UtahFutures.org: [Occupation/Wage Search](#)

**FFA**

is the Career and Technical Student Organization (CTSO) for students in the Plant Science Career Pathway.

[FFA.org](http://FFA.org) | [UtahFFA.org](http://UtahFFA.org)

[Utah FFA flyer](#)

