



Career Cluster: Agriculture, Food & Natural Resources


Career Pathway: Agricultural Mechanics Systems

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
Agriculture, Introduction		
HIGH SCHOOL		
EXPLORER COURSES: Choose one or more of the following courses.		
Agricultural Biotechnology	Agricultural Systems Technology 1 +	Business Communication 2
Agricultural Science 1	Biology-Agricultural Science	Environmental Technician
Agricultural Science and Technology Application *	Business Communication 1 *	Leadership Principles 1 *
CONCENTRATOR COURSES: To be a concentrator you must pass the following course AND one explorer course.		
Agricultural Systems Technology 2		
COMPLETER COURSES: To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
Agricultural Mechanics, Advanced *		
Agricultural Machinery Technology		
CTE Internship		
POSTSECONDARY:		
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)		
UtahMajors.org: Majors Guide		

* 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
		> Hydraulic Technician > Maintenance Service Technician > Welder	> Agricultural Engineer Technician > Diesel Mechanic > Equipment Dealer Technician

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](#)

Utah Department of Workforce Services
[Utah Occupational Explorer](#)

FFA

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

FFA.org | UtahFFA.org
[Utah FFA flyer](#)





Career Cluster: Agriculture, Food & Natural Resources

Career Pathway: Agricultural Production Systems

JUNIOR HIGH / MIDDLE SCHOOL	
College and Career Awareness	
Agriculture, Introduction	
HIGH SCHOOL	
EXPLORER COURSES: Choose one or more of the following courses.	
Agricultural Biotechnology	Business Communication 1 *
Agricultural Science 1 +	Business Communication 2
Agricultural Science and Technology Application *	Environmental Technician *
Biology-Agricultural Science	Leadership Principles 1 *
CONCENTRATOR COURSES: To be a concentrator you must pass the following course AND one explorer course.	
Agricultural Science 2	
COMPLETER COURSES: 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: ushe.edu (Utah's public colleges and universities)	
UtahMajors.org: Majors Guide	

* 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
	> Crop Scout > Pesticide Handler/Applicator > Storage and Hygiene Coord.	> Agricultural Engineer Tech. > Sales Representative > Slaughter/Processor	> 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](#)

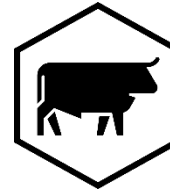
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[Utah FFA flyer](#)





Career Cluster: Agriculture, Food & Natural Resources

Career Pathway: Animal & Veterinary Science

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
Agriculture, Introduction		
HIGH SCHOOL		
EXPLORER COURSES: Choose one or more of the following courses.		
Agricultural Biotechnology	Business Communication 1 *	
Agricultural Science 1	Business Communication 2	
Agricultural Science and Technology Application *	Equine Science 1 +	
Animal Science 1 +	Leadership Principles 1 *	
Aquaculture +	Veterinary Assistant 1 +	
Biology-Agricultural Science		
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.		
Animal Science 2 *	Guide Dog Training	Veterinary Assistant 2
Equine Science 2	Small and Companion Animal Science	
COMPLETER COURSES: 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: ushe.edu (Utah's public colleges and universities)		
UtahMajors.org: Majors Guide		

* 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"> > Artificial Inseminator > Livestock Auctioneer > Shipping Coordinator 	<ul style="list-style-type: none"> > Herdsman > Livestock Buyer > Veterinary Assistant/Technologist and Technician 	<ul style="list-style-type: none"> > Animal Nutrition Specialist > CTE Teacher > Farm/Ranch Manager

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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](#)

Utah Department of Workforce Services
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is the Career and Technical Student Organization (CTSO) for students in the Animal & Veterinary Science Career Pathway.

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[Utah FFA flyer](#)





Career Cluster: Agriculture, Food & Natural Resources

Career Pathway: Food Science, Dietetics & Nutrition

JUNIOR HIGH / MIDDLE SCHOOL
College and Career Awareness
FCS Exploration
HIGH SCHOOL
EXPLORER COURSES: Choose one or more of the following courses.
Food and Nutrition 1 +
Human Development *
Medical Anatomy and Physiology *
CONCENTRATOR COURSES: To be a concentrator you must pass the following course AND one explorer course.
Food and Nutrition 2
COMPLETER COURSES: To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.
Dietetics (Course under development. Available school year 2021-2022.)
Food Science
Foundations of Nutrition *
CTE Internship
POSTSECONDARY:
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)
UtahMajors.org: Majors Guide

* 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 > Food Protections Manager > Food Inspector Assistant > Food Sanitation Coordinator	2-Year Assoc. or Tech. Degree > Research and Development Technician	4-Year Bachelor's Degree > CTE Teacher > Dietitian/Nutritionist > Food Scientist

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

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

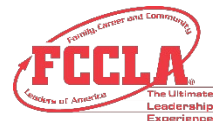
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Utah Department of Workforce Services
[Utah Occupational Explorer](#)

FCCLA

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

FCCLAinc.org | UtahFCCLA.org
[Utah FCCLA flyer](#)





Career Cluster: Agriculture, Food & Natural Resources

Career Pathway: Natural Resource Science

JUNIOR HIGH / MIDDLE SCHOOL	
College and Career Awareness	
Agriculture, Introduction	
HIGH SCHOOL	
EXPLORER COURSES: Choose one or more of the following courses.	
Agricultural Biotechnology	Business Communication 1 *
Agricultural Science 1	Business Communication 2
Agricultural Science and Technology Application *	Leadership Principles 1 *
Aquaculture +	Natural Resource Science 1 +
Biology-Agricultural Science	
CONCENTRATOR COURSES: To be a concentrator you must pass the following course AND one explorer course.	
Natural Resource Science 2 *	
COMPLETER COURSES: 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: ushe.edu (Utah's public colleges and universities)	
UtahMajors.org: Majors Guide	

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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
	> Firefighter > Heavy Equipment Operator > Pesticide Handler/Applicator	> Arborist > Fisheries Technician > Forestry Technician	> CTE Teacher > Conservation Officer/Scientist > Wildlife Biologist

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

Student Testimonial

"I enrolled in all of the CTE courses in the Natural Resource Science Pathway. The courses added depth to my understanding. Summer Ag enhanced my practical knowledge in the field. All of this together helped me along my planned path to reach my personal and occupational goals."

Cache Bisel
 South Summit High School

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Agriculture, Food & Natural Resources

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[Utah FFA flyer](#)





Career Cluster: Agriculture, Food & Natural Resources

Career Pathway: Plant Science

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
Agriculture, Introduction		
HIGH SCHOOL		
EXPLORER COURSES: Choose one or more of the following courses.		
Agricultural Biotechnology	Biology-Agricultural Science	Leadership Principles 1 *
Agricultural Science 1	Business Communication 1 *	Plant and Soil Science 1 * +
Agricultural Science and Technology Application *	Business Communication 2	
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.		
Floriculture	Landscape Architecture, Intro	Plant and Soil Science 2
Floriculture and Greenhouse Mgmt.	Nursery Operation	Sustainable Urban Agriculture
COMPLETER COURSES: To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
Greenhouse Management		
Landscape Management *		
CTE Internship		
POSTSECONDARY:		
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UtahMajors.org: Majors Guide		

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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
	> Crop Scout > Irrigation Specialist > Pesticide Handler/Applicator	> Arborist > Landscape Technician > Turf Manager	> CTE Teacher > Crop Advisor > Landscape Designer/Architect

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

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

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[Utah Occupational Explorer](#)

FFA

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FFA.org | UtahFFA.org
[Utah FFA flyer](#)

