




Career Cluster: Agriculture, Food & Natural Resources

Career Pathway: Agricultural Mechanics Systems

JUNIOR HIGH / MIDDLE SCHOOL	
College and Career Awareness	
Agriculture, Intro	
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	Business Leadership 1
Agricultural Systems Technology 1 +	Industrial Agriculture Technology
Biology-Agricultural Science	
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 a concentrator course and enough courses to equal 3.0 credits in this Pathway.	
Agricultural Mechanics, Advanced	
Agricultural Machinery Technology	
CTE Internship	Apprenticeship
POSTSECONDARY: There are many options for education and training beyond high school.	
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.			
	1-2 Year Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	<ul style="list-style-type: none"> > Hydraulic Technician > Maintenance Service Technician > Welder 	<ul style="list-style-type: none"> > Agricultural Engineer Technician > Diesel Mechanic > Equipment Dealer Technician 	<ul style="list-style-type: none"> > Agricultural Engineer > CTE Teacher > Welding Engineer

Career and Technical Education provides all students access to high-quality, rigorous career-focused programs that result in attainment of credentials with labor market value. [Credentials of Value](#)
 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](#)

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, Intro	
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 *	Business Leadership 1 *
Biology-Agricultural Science	
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 a concentrator course and enough courses to equal 3.0 credits in this Pathway.	
CTE Internship	Apprenticeship
POSTSECONDARY:	
There are many options for education and training beyond high school.	
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.			
	1-2 Year Certificate	2-Year Associate 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](#)

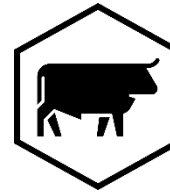
Department of Workforce Services
[Utah Occupational Explorer](#)

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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, Intro		
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 +	Business Leadership 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 Companion Animal Science	
COMPLETER COURSES: To be a completer you must pass a concentrator course and enough courses to equal 3.0 credits in this Pathway.		
CTE Internship	Apprenticeship	
POSTSECONDARY: There are many options for education and training beyond high school.		
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.

	1-2 Year Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
		> Artificial Inseminator > Livestock Auctioneer > Shipping Coordinator	> Herdsman > Livestock Buyer > Veterinary Assistant/Technologist and Technician

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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

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Agriculture, Food & Natural Resources

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[Utah Occupational Explorer](#)

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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](#)



Utah Career and Technical Education
 Career Pathway Chart
 2022-2023 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 6th Grade		
FCS Exploration		
HIGH SCHOOL		
EXPLORER COURSES: Choose one or more of the following courses.		
Food and Nutrition +		
Human Development *		
Medical Anatomy and Physiology *		
CONCENTRATOR COURSES: To be a concentrator you must pass the following course AND one explorer course.		
Dietetics and Nutrition 1		
COMPLETER COURSES: To be a completer you must pass a concentrator course and enough courses to equal 3.0 credits in this Pathway.		
Dietetics and Nutrition 2	Food Science	Foundations of Nutrition *
CTE Internship	Apprenticeship	
POSTSECONDARY: There are many options for education and training beyond high school.		
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* 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.			
	1-2 Year Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	> Food Protections Manager > Food Inspector Assistant > Food Sanitation Coordinator	> Research and Development Technician	> CTE Teacher > Dietitian/Nutritionist > Food Scientist

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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

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Agriculture, Food & Natural Resources

UtahCTE.org: [Fact Sheet](#)

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, Intro	
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 *	Business Leadership 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 a concentrator course and enough courses to equal 3.0 credits in this Pathway.	
CTE Internship	Apprenticeship
POSTSECONDARY: There are many options for education and training beyond high school.	
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* 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.

	1-2 Year Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	<ul style="list-style-type: none"> > Firefighter > Heavy Equipment Operator > Pesticide Handler/Applicator 	<ul style="list-style-type: none"> > Arborist > Fisheries Technician > Forestry Technician 	<ul style="list-style-type: none"> > CTE Teacher > Conservation Officer/Scientist > Wildlife Biologist

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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

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Agriculture, Food & Natural Resources

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

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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, Intro		
HIGH SCHOOL		
EXPLORER COURSES: Choose one or more of the following courses.		
Agricultural Biotechnology	Biology-Agricultural Science	Business Leadership 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 a concentrator course and enough courses to equal 3.0 credits in this Pathway.		
Floriculture, Advanced	Greenhouse Management	Landscape Management *
CTE Internship		Apprenticeship
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* concurrent enrollment course + recommended explorer course

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

	1-2 Year Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
		> Crop Scout > Irrigation Specialist > Pesticide Handler/Applicator	> Arborist > Landscape Technician > Turf Manager

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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

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Agriculture, Food & Natural Resources

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[Utah FFA flyer](#)

