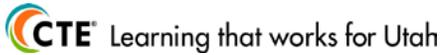


# Utah Career and Technical Education Career Pathway

## 2017-2018 School Year



**CTSO Information**  
 Career and Technical Student Organizations (CTSO) align with the national Career Clusters® and the Utah CTE Career Pathways.  
 FFA is the CTSO for students in the Animal Systems Career Pathway. FFA brings relevance to the classroom through industry-based competitive events and community service.

**Workforce Trends**  
 Twenty-one million people (or 18.5 percent of the American workforce) are employed in the agricultural industry. Farmers and ranchers provide food and habitat for 75 percent of the nation's wildlife. One-fourth of the world's beef and one-fifth of the world's grain, milk, and eggs are produced in the United States.

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

#### Career Pathway: Animal Systems

CORE CODE	FOUNDATION COURSES (required)	CREDITS	
30.02.00.00.040	Animal Science 1	1.00	2.00 credits
<i>Choose one of the following courses:</i>			
30.02.00.00.001	Animal Science 2	1.00	
30.02.00.00.070	Equine Science	1.00	
30.01.00.00.005	Small and Companion Animal Science	1.00	
30.02.00.00.090	Veterinary Assistant 1	1.00	
ELECTIVE COURSES			
30.01.00.00.116	Aquaculture, Introduction	1.00	1.00 credit
30.01.00.00.115	Aquaculture, Advanced	1.00	
30.02.00.00.050	Biology-Agricultural Science	1.00	
32.02.00.00.110	Business Communication 1	.50	
32.02.00.00.111	Business Communication 2	.50	
32.02.00.00.140	Business Management	.50	
30.02.00.00.072	Equine Science A	.50	
30.02.00.00.074	Equine Science B	.50	
37.01.00.00.150	Leadership Management Principles	1.00	
30.02.00.00.095	Veterinary Assistant 2	1.00	
30.01.00.00.200	Summer Agriculture Program	.25	
	Supervised Agriculture Experience Program (capstone experience)		
41.00.00.00.030	Workplace Skills	.50	
<b>3.00 credits for completion</b>			

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

**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.**

**Animal Systems is:**  
 > High skill  
 > High wage

**Sample Occupations Requiring:**  
High School Diploma  
 > Livestock Handler  
 > Swine Farm Worker  
 > Veterinary Assistant and Laboratory Animal Caretaker

Certificate  
 > Artificial Inseminator  
 > Livestock Auctioneer  
 > Shipping Coordinator

Assoc. or Technical Degree  
 > Herdsman  
 > Livestock Buyer  
 > Veterinary Assistant/Technologist and Technician

Baccalaureate Degree  
 > Animal Nutrition Specialist  
 > Career and Technical Education Teacher  
 > Farm/Ranch Manager

Graduate or Prof. Degree  
 > Animal Scientists  
 > Extension Specialist  
 > Veterinarian

**Student Testimonial**  
 "I took many CTE classes in high school that were beneficial in preparation for my college education to become a veterinary technician. Biology, chemistry, animal science, and veterinary assisting helped me understand cells and how a body functions. I have a passion for animals and their well-being and want to pursue a career in agriculture."  
 Karlie Ault

### HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING

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

<b>12th Grade</b>	<b>1-Year Certificate</b>	<b>2-Year Associate or Technical Degree</b>	<b>4-Year Bachelor's Degree</b>	<b>More Graduate or Prof. Degree</b>
Certificates are awarded upon the successful completion of a brief course of study, usually one year or less. Upon completion of a course of study, a certificate does not require any further action to retain. In high school a variety of certificates can be earned.		An academic degree is an award for the completion of a program or course of study over multiple years at postsecondary education institutions. In 2015-2016, 73 percent of secondary students who concentrated in a CTE Career Pathway placed in postsecondary education, advanced training, military service or employment (October 1-December 31).		

**Utah Business and Industry Facts**  
 Agriculture is a vital industry to Utah's economy. There are 18,100 farms in the state, totaling approximately 11 million acres, where Utah agriculturists produce crops and livestock worth \$1.8 billion annually.  
 (Utah Department of Agriculture and Food)

**CTE Skill Certificates**  
 Competency-based student assessments, measured by core standards and competencies needed to be successful in the workforce.

**UtahFutures: College and Career Planning**  
 Visit [UtahFutures.org](http://UtahFutures.org) for salary projections, labor market demand, and training options.

In 2015-2016, 96,190 CTE skill certificates were awarded to high school students. Students' knowledge and performance is demonstrated as part of the Skill Certificate process.

In 2015-2016, the graduation rate for students who concentrated in a CTE Career Pathway was 96.6 percent, compared to Utah's statewide graduation rate of 85 percent.