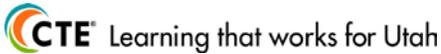


# Utah Career and Technical Education Career Pathway

## 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 Plant Systems Career Pathway. FFA brings relevance to the classroom through industry-based competitive events and community service.

**Workforce Trends**  
 According to the U.S. Department of Labor, employment of conservation scientists and foresters is projected to grow 7 percent through the year 2024.  
 Nationwide, employment of landscape architects is projected to grow 5 percent through the year 2024.

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

#### Career Pathway: Plant Systems

CORE CODE	FOUNDATION COURSES (required)	CREDITS	
<i>Choose two credits from the following courses:</i>			
30.01.00.00.152	Floriculture	.50	2.00 credits
30.01.00.00.150	Floriculture and Greenhouse Management	1.00	
30.01.00.00.154	Greenhouse Management	.50	
30.01.00.00.160	Landscape Management	.50	
30.01.00.00.165	Nursery Operation	.50	
30.02.00.00.080	Plant and Soil Science 1	1.00	
30.02.00.00.010	Plant and Soil Science 2	1.00	
ELECTIVE COURSES			
30.01.00.00.050	Agricultural Science 1	1.00	1.00 credit
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	
30.01.00.00.140	Farm and Ranch Management	1.00	
37.01.00.00.150	Leadership Management Principles	1.00	
30.01.00.00.110	Ornamental Horticulture, Applied	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.**

**Plant Systems is:**  
 > High demand

**Sample Occupations Requiring:**  
High School Diploma  
 > Florist  
 > Greenhouse Worker  
 > Tree Trimmers and Pruners

Certificate  
 > Crop Scout  
 > Irrigation Specialist  
 > Pesticide Handler/Applicator

Assoc. or Technical Degree  
 > Arborist  
 > Landscape Technician  
 > Turf Manager

Baccalaureate Degree  
 > Career and Technical Education Teacher  
 > Crop Advisor  
 > Landscape Designer/Architect

Graduate or Prof. Degree  
 > Agronomist  
 > Extension Specialist  
 > Microbiologist

**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

### 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**  
 In Utah, the value of crops including nursery and greenhouse crops is \$575 million. Hay and forage has the highest values of sales at \$297 million.

**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.