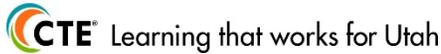


Utah Career and Technical Education Career Pathway

2019-2020 School Year



CTSO Information
 Career and Technical Student Organizations (CTSO) align with the national Career Clusters® and the Utah CTE Career Pathways.

Students who participate in the Cybersecurity Career Pathway choose among the following CTSOs, depending upon what is available at their school:

FBLA | SkillsUSA | TSA

Workforce Trends
 According to the U.S. Department of Labor, employment of information security analysts is projected to grow 28 percent nationwide through the year 2026. Demand is expected to be very high, as these analysts will be needed to create innovative solutions to prevent hackers from stealing critical information or causing problem for computer networks.

Career Cluster: Information Technology

Career Pathway: Cybersecurity

CORE CODE	FOUNDATION COURSES (required)	CREDITS	
<i>Choose three of the following courses:</i>			
35.02.00.00.042	Cloud Computing	.50	1.50 credits
35.01.00.00.036	Cybersecurity Ethical Hacking	.50	
35.01.00.00.038	Cybersecurity Forensics	.50	
35.02.00.00.060	Web Development 1	.50	
ELECTIVE COURSES			
35.02.00.00.021	Database Development	1.00	1.50 credits
35.02.00.00.008	Exploring Computer Science 2	.50	
35.02.00.00.005	Introduction to Information Technology	.50	
35.01.00.00.025	Linux Fundamentals	.50	
41.00.00.00.050	CTE Internship	.50	
41.00.00.00.030	Workplace Skills	.50	
		3.00 credits for completion	

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.

Cybersecurity is:

- > High-skill
- > High-wage
- > In-demand

Sample Occupations Requiring:

[High School Diploma](#)

- > N/A

[Certificate](#)

- > N/A

[Assoc. or Technical Degree](#)

- > Computer Network Support Specialist

[Baccalaureate Degree](#)

- > Career and Technical Education Teacher
- > Computer and Information Systems Managers
- > Computer Programmers
- > Information Security Analyst

[Graduate or Prof. Degree](#)

- > Computer and Information Research Scientists

Student Testimonial

“Getting a degree will help me to pursue my goal of working as a computer programmer at a large company. CTE classes prepared me by showing me what I would actually be doing in the different job fields and how I would apply the information that I learned in class.”

Aaron Montoya

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.

12th Grade	1-Year Certificate	2-Year Associate or Technical Degree	4-Year Bachelor’s Degree	More Graduate or Prof. Degree
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 2016-2017, 74 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 2018, the Information Technology and Innovation Foundation (ITIF) ranked Utah’s state government website (Utah.gov) #1 for security, and 17th overall. “Government websites should be fast, secure, mobile-friendly, and accessible to everyone, said Daniel Castro, ITIF vice president.

UtahFutures: College and Career Planning

Visit UtahFutures.org to explore occupations, search salary projections, access labor market information, investigate training options, and to create a plan.

CTE Credentials of Value

In 2017-2018, 112,867 CTE Skill Certifications were awarded to secondary students and 19,189 third-party certifications were earned by secondary students.

Visit UtahCTE.org to access high-quality, rigorous career-focused programs that result in attainment of credentials with labor market value.

In 2017-2018, the graduation rate for students who concentrated in a CTE Career Pathway was 95 percent, compared to Utah’s statewide graduation rate of 87 percent.