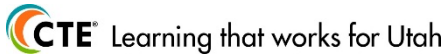


Utah Career and Technical Education Career Pathway

2019-2020 School Year



Career Cluster: Information Technology

Career Pathway: Information Technology Systems

CORE CODE	FOUNDATION COURSES (required)	CREDITS	
Choose 1.50 credits from the following courses:			
35.01.00.00.040	A+ (Computer Maintenance)	1.00	1.50 credits
35.01.00.00.010	Cisco Certified Network Administrator (CCNA)	1.00	
35.01.00.00.030	Network Fundamentals	.50	
ELECTIVE COURSES			
35.02.00.00.021	Database Development	1.00	1.50 credits
35.02.00.00.005	Introduction to Information Technology	.50	
35.01.00.00.025	Linux Fundamentals	.50	
35.01.00.00.020	Microsoft Certified Professional	.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. Visit UtahCTE.org to learn how to earn industry certification in this Career Pathway.

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.

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 Information Technology Systems Career Pathway choose among the following CTOS, depending upon what is available at their school:

FBLA | SkillsUSA | TSA

Workforce Trends

Growth will be driven by rapid increases in the computer and data processing services industry.

In Utah, the average annual employment growth rate for computer systems analysts is 5 percent through the year 2024.

According to the Utah Technology Council, IT occupations account for \$6.9 billion (14.3 percent) of Utah's total payroll.

Information Technology

Systems is:

- > High skill
- > High wage
- > High 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 Network Architect
- > Computer and Information Systems Manger
- > Computer Systems Analyst
- > Database Administrator
- > Network and Computer Systems Administrator

[Graduate or Prof. Degree](#)

> Computer and Information Research Scientist

Student Testimonial

"This program helped me earn many industry-level certifications including: CompTIA, IT Strata Fundamentals, IC3, Microsoft Technical Associate (MIT), OS Fundamentals, and Security and Academy of Information Technology certifications."

Parker Kingsford

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 2017, Forbes named Utah "cloud computing's new capital." Forbes ranked six Utah tech companies in the top 100 and three of the Utah tech companies were ranked in the top 20—Qualtrics (No.6), Domo (15), Pluralsight (20), Workfront (58), Health Catalyst (64), and InsideSales (92).

CTE Skill Certificates

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

In 2017-2018, 111,238 CTE skill certificates were awarded to high school students. Students' knowledge and performance is demonstrated as part of the Skill Certificate process.

UtahFutures: College and Career Planning

Visit UtahFutures.org for salary projections, labor market demand, and training options.

In 2016-2017, the graduation rate for students who concentrated in a CTE Career Pathway was 95 percent, compared to Utah's statewide graduation rate of 86 percent.