Utah Career and Technical Education
Career Pathway Chart
2023-2024 School Year

Cybersecurity
CAREER PATHWAY
Computer Science & Information Technology
CAREER CLUSTER

Career Cluster: Computer Science & Information Technology

Career Pathway: Cybersecurity

JUNIOR HIGH / MIDDLE SCHOOL	
College and Career Awareness	
Computer Science Investigations	Python 1, Intro
Creative Coding	Python 2, Intro

HIGH SCHOOL		
SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)		
Current Issues	Math 1050	Secondary Math 3
Law Enforcement *	Secondary Math 2	
EXPLORER COURSES: Choose one or more of the following courses.		
AP Computer Science Principles	Database Development *	Linux Fundamentals *
Computer Programming 1 *	Exploring Computer Science	Network Fundamentals *
Computer Science Principles *	Information Technology, Intro *	Web Development 1 *
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.		
Principles of Cyber Defense and Ethics *		
COMPLETER COURSES: To be a completer you must pass a concentrator course and enough courses to equal 3.0 credits in this Pathway.		
Cyber Forensics *		
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.

COLLEGE 24 or more	1-2 Year Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	> Computer Technician	> Computer Network Support	> CTE Teacher
	> Cybersecurity Operations	> Cybersecurity Technical Writer	> Computer and Information Systems Manager
	> Security Specialist	> Security Architect	> Security App. Programmer
		> Vulnerability Analysis	> Security 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

"**I have developed so many skills** and have acquired so much knowledge needed for a computer programming career. Learning the basics of coding at an early age will help me to have a strong foundation. I will be able to excel in advanced programming and master difficult concepts with much more ease."

Shawn Allen
Future Computer Programmer

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Computer Science & Information Technology

UtahCTE.org: Fact Sheet

Department of Workforce Services
Utah Occupational Explorer

FBLA | SkillsUSA | TSA

are the Career and Technical Student Organizations (CTSO) for students in Cybersecurity Career Pathway.

FBLA-PBL.org | SkillsUSA.org | TSAweb.org
Utah-FBLA-PBL.org | UtahSkillsUSA.org | UtahTSA.org
Utah FBLA flyer | SkillsUSA flyer | Utah TSA flyer

CTE® Learning that works for Utah