



Career Cluster: Computer Science & Information Technology

Career Pathway: Cybersecurity

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
Creative Coding		
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 2
Law Enforcement *	Photography	Secondary Math 3
EXPLORER COURSES: Choose one or more of the following courses.		
Computer Programming 1 *	Exploring Computer Science	
Computer Science Principles 1 *	Information Technology, Intro *	
Database Development *	Web Development 1 *	
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.		
Cybersecurity Ethical Hacking *	Linux Fundamentals *	
COMPLETER COURSES: To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
Cloud Computing *	Cybersecurity Forensics *	
CTE Internship		
POSTSECONDARY:		
Utah System of Higher Education: ushe.edu UtahMajors.org: Utah Majors Guide		
Utah System of Technical Colleges: utech.edu		

* 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.

	1-Year Certificate	2-Year Assoc. or Tech. Degree	4-Year Bachelor's Degree
	N/A	> Computer Network Support Specialist	> CTE Teacher > Computer and Information Systems Managers > Computer Programmers

Utah CTE classes are open to all qualified students without regard to race, color, national origin, sex, disability, or age.

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
 Jordan High School

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Computer Science & Information Technology

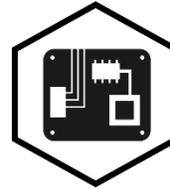
UtahCTE.org: [Fact Sheet](#)

UtahFutures.org: [Occupation/Wage Search](#)

FBLA | SkillsUSA | TSA

are the Career and Technical Student Organizations (CTSO) for students in the 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](#)



Career Cluster: Computer Science & Information Technology

Career Pathway: Information Technology Systems

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
Creative Coding		
HIGH SCHOOL		
SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)		
Math 1050	Secondary Math 2	Secondary Math 3
EXPLORER COURSES: Choose one or more of the following courses.		
CISCO Certified Networking Associate	Exploring Computer Science	Robotics Technology
Computer Programming 1 *	Information Technology, Intro *	Web Development 1 *
Computer Science Principles 1 *	Microsoft Certified Professional *	
Database Development *	Robotics 1	
CONCENTRATOR COURSES: To be a concentrator you must pass the following course AND one explorer course.		
A+ Computer Maintenance and Repair *	Geographical Information Systems, Intro	
COMPLETER COURSES: To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
Geographic Information Systems Remote Sensing *	Network Fundamentals *	
CTE Internship		
POSTSECONDARY:		
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	1-Year Certificate	2-Year Assoc. or Tech. Degree	4-Year Bachelor's Degree
	N/A	> Computer Network Support Specialist	> CTE Teacher > Computer Network Architect > Computer and Information Systems Manager

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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
 West Jordan High School

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Computer Science & Information Technology

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UtahFutures.org: [Occupation/Wage Search](#)

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FBLA-PBL.org | SkillsUSA.org | TSAweb.org
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[Utah FBLA flyer](#) | [SkillsUSA flyer](#) | [Utah TSA flyer](#)



Career Cluster: Computer Science & Information Technology

Career Pathway: Programming & Software Development

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
Creative Coding	Python 1, Intro	
Digital Literacy	Python 2, Intro	
HIGH SCHOOL		
SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)		
Leadership Principles 1 *	Physics	Secondary Math 3
Math 1050	Secondary Math 2	
EXPLORER COURSES: Choose one or more of the following courses.		
AP Computer Science Principles	Robotics 1	Robotics Technology
Computer Programming 1 *	Database Development *	Game Development Fundamentals 1
Computer Science Principles *	Exploring Computer Science	Information Technology, Intro
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.		
Computer Programming 2 *	Game Development Fundamentals 2	Mobile Development Fundamentals
COMPLETER COURSES: To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
AP Computer Science	Algorithms and Data Structures *	Computer Programming, Advanced *
CTE Internship		
POSTSECONDARY:		
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Utah System of Technical Colleges: utech.edu		

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	1-Year Certificate	2-Year Assoc. or Tech. Degree	4-Year Bachelor's Degree
	N/A	> Web Developer	> CTE Teacher > Computer Programmer > Computer Systems Analyst

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Student Testimonial

"My goal is to become a video game designer or programmer. The classes I took in high school taught me how to use the programs that I would be pursuing in my career field and have given me a taste of what programming and design are like."

Jenny Whitecar
 Syracuse High School

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Computer Science & Information Technology

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FBLA | SkillsUSA | TSA

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Career Cluster: Computer Science & Information Technology

Career Pathway: Web Development

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
Creative Coding		
HIGH SCHOOL		
SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)		
Leadership Principles 1 *	Secondary Math 2	World Civilization
Math 1050	Secondary Math 3	World Geography
EXPLORER COURSES: Choose one or more of the following courses.		
Computer Science Principles 1 *	Digital Graphic Arts Intro *	Exploring Computer Science
Database Development *	Entrepreneurship *	Information Technology, Intro *
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.		
HTML 5 Application Development Fundamentals *		
UX/UI and Quality Assurances		
Web Development 2		
COMPLETER COURSES: To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
Web Development Capstone		
CTE Internship		
POSTSECONDARY:		
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Utah System of Technical Colleges: utech.edu		

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

	1-Year Certificate	2-Year Assoc. or Tech. Degree	4-Year Bachelor's Degree
	N/A	> Web Developer	<ul style="list-style-type: none"> > CTE Teacher > Computer and Information Systems Manager > Computer Programmer > Database Administrator

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Student Testimonial

“My goal is to go to Utah Valley University and obtain an associate degree in computer technology with the focus on Web design. CTE courses have provided experience in several areas that would not be available without CTE.”

Zachary Crocker
 Springville High School

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FBLA SkillsUSA | TSA

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

[FBLA-PBL.org](#) | [SkillsUSA.org](#) | [TSAweb.org](#)
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