Utah Career and Technical Education Career Pathway Chart

2020-2021 School Year



Career Cluster: Computer Science & Information Technology

Career Pathway: Programming & Software Development

JUNIOR HIGH / MIDDLE SCHOOL				
College and Career Awareness				
Creative Coding		Python 1, Intro		
<u>Digital Literacy</u>		Python 2, Intro		
HIGH SCHOOL				
SUPPORTING COURSES: Suggested his	gh school courses that support th	ne 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 r	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 Scien	ce	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 Funda	amentals 2	Mobile Development Fundamentals	
COMPLETER COURSES: To be a compl	eter you must pass enough cours	ses to earn 3.0 cred	its in this Pathway.	
AP Computer Science	Algorithms and Data Struc	tures *	Computer Programming, Advanced *	
CTE Internship				
POSTSECONDARY:				
Utah System of Higher Education: ushe.e	du (Utah's public colleges and un	niversities)		
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.



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

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

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

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Computer Science & Information Technology

UtahCTE.org: Fact Sheet

Utah Department of Workforce Services
Utah Occupational Explorer

FBLA |SkillsUSA | TSA

are the Career and Technical Student Organizations (CTSO) for students in the Programming & Software Development 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

