Utah Career and Technical Education Career Pathway Chart

2023-2024 School Year



Career Cluster: Computer Science & Information Technology

Career Pathway: Programming & Software Development

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
Digital Literacy			
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		
Physics	Secondary Math 3		
EXPLORER COURSES: Choose one or more of the following courses.			
AP Computer Science Principles	Information Technology Intro		
Computer Programming 1*	Robotics 1		
Computer Science Principles*			
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.			
Computer Programming 2*	Game Development Fundamentals 1		
COMPLETER COURSES: To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.			
Game Development Fundamentals 2			
CTE Internship			
POSTSECONDARY:			
Utah System of Higher Education: ushe.edu UtahMajors.org: Utah Majors Guide			
Utah System of Technical Colleges: utech.edu			

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

UtahFutures.org: Occupation/Wage Search

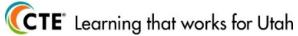
FBLA |SkillsUSA |

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



^{*} concurrent enrollment course + recommended explorer course