



Career Cluster: Computer Science & Information Technology

Career Pathway: Programming & Software Development

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
Creative Coding		
Digital Literacy		
HIGH SCHOOL		
SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)		
Math 1050	Physics	Secondary Math 3
	Secondary Math 2	
EXPLORER COURSES: Choose one or more of the following courses.		
Electronics		
Computer Programming 1		
Exploring Computer Science		
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 a concentrator course and enough courses to equal 3.0 credits in this Pathway.		
CTE Internship		
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.			
	1-2 Year Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	> Entry Level Programmer	> Computer Systems Analyst > Game Play Programmer > Software Developer	> CTE Teacher > Software Engineer > Sys Software Programmer

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

"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](#)

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](#)