



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:		
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	> 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 | 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](#)