Utah Career and Technical Education Career Pathway Chart 2024-2025 School Year





Programming & Software Development CAREER PATHWAY

Computer Science & Information Technology CAREER CLUSTER

Career Cluster: Computer Science & Information Technology

Career Pathway: Programming & Software Development

JUNIOR HIGH / MIDDLE SCHOOL							
College and Career Awareness							
					-		
HIGH SCHOOL							
SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)							
Physics	Secondary	Math 2	Secondary Math 3				
EXPLORER COURSES: Choose one or more of the following courses.							
Unmanned Aerial Systems (UAS)							
Computer Programming 1 *							
Exploring Computer Science							
Math 1050							
Robotics 1							
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.							
Computer Programming 2 *							
COMPLETER COURSES: To be a completer you must pass a concentrator course and enough courses to equal 3.0 credits in this Pathway.							
AP Computer Science							
		-					
POSTSECONDARY: There are many options for education and training beyond high school.							
Utah System of Higher Education: <u>ushe.edu</u> (Utah's public colleges and universities)				UtahMajors.org: Majors Guide			

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING

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



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

 $\label{thm:ctensor} \textbf{U} \textbf{tah CTE classes are open to all qualified students without regard to race, color, national origin, sex, disability, or age. } \\$

Advice to Students

"I would highly recommend the CTE Pathway program to students. It is a great opportunity to earn college credit at a much more affordable price and gives you an advantage over anyone graduating from a traditional pathway."

Jaren Woodbury Future Software Developer

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Computer Science & Information Technology

UtahCTE.org: Fact Sheet

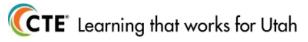
Department of Workforce Services

<u>Utah Occupational Explorer</u>

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 Utah flyer | Utah TSA flyer



^{*} concurrent enrollment course + recommended explorer course