Utah Career and Technical Education Career Pathway Chart 2025-2026 School Year



Career Cluster: Digital Technology

Career Pathway: Programming & Software Development

Computer Science Investigations		Digital Literacy		Python 2, Intro	
Creative Coding		Python 1, Intro		Robotics Technology	
HIGH SCHOOL					
SUPPORTING COURSES: Sugg	ested high so	chool courses that suppo	rt the Career Pathwa	ay (Courses DO N	IOT count towards the Pathway)
Entrepreneurship	Physics		Secondary Math 2		Secondary Math 3
EXPLORER COURSES : Choose	one or more	of the following courses			
3D Print Technology	Computer Science Principles (AP) * Ex		Exploring Computer Science		Robotics 1
AR/VR * + (Augmented Reality and Virtual Reality)	Data Analytics		Information Technology, Intro		Unmanned Aerial Systems
Computer Programming 1 *	Data Science		Math 1050		Web Development 1
Computer Science Principles *	Engineering Principles 1		Mobile Development Fundamentals		
CONCENTRATOR COURSES:	To be a conce	entrator you must pass o	ne of the following c	ourses AND one	explorer course.
Computer Programming 2 *		Computer Science HL 1 (IB)		Database Development *	
Computer Science A (AP)		Computer Science SL 1 (IB) G		Game Development Fundamentals 1	
COMPLETER COURSES : To be	a completer	you must pass a concen	trator course and en	ough courses to	equal 3.0 credits in this Pathwa
Algorithms and Data Structures *		Computer Science HL 2 (IB)		Game Development Fundamentals 2	
Computer Programming, Advanced *		Computer Science SL 2 (IB)			
Computer Programming Capstone		Engineering Capstone			
CTE Internship			Apprenticeship		

^{*} 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.



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.

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

Digital Technology

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 | Ut

