



## Career Cluster: Computer Science & Information Technology


### Career Pathway: Cybersecurity

| JUNIOR HIGH / MIDDLE SCHOOL  |   |  |
|--|---|--|
| <a href="#">College and Career Awareness</a>   |   |  |
| Computer Science Investigations  | <a href="#">Creative Coding</a>                 |  |
| HIGH SCHOOL  |   |  |
| <b>SUPPORTING COURSES:</b> Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)      |   |  |
| Current Issues   | Math 1050                                       | Secondary Math 2                             |
| <a href="#">Law Enforcement</a> *  | Photography                                     | Secondary Math 3                             |
| <b>EXPLORER COURSES:</b> Choose one or more of the following courses.  |   |  |
| <a href="#">Computer Programming 1</a> *   | <a href="#">Exploring Computer Science</a>      |  |
| <a href="#">Computer Science Principles 1</a> *  | <a href="#">Information Technology, Intro</a> * |  |
| <a href="#">Database Development</a> *   | <a href="#">Web Development 1</a> *             |  |
| <b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.                    |   |  |
| <a href="#">Principles of Cyber Defense and Ethics</a> *   | <a href="#">Linux Fundamentals</a> *            |  |
| <b>COMPLETER COURSES:</b> To be a completer you must pass a concentrator course and enough courses to equal 3.0 credits in this Pathway. |   |  |
| <a href="#">Cybersecurity Forensics</a> *  |   |  |
| CTE Internship   |   |  |
| POSTSECONDARY:   |   |  |
| Utah System of Higher Education: <a href="https://ushe.edu">ushe.edu</a> (Utah's public colleges and universities)                       |   | UtahMajors.org: <a href="#">Majors Guide</a> |

\* 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   |
|---|----------------------|---------------------------------------|--|
|   | N/A                  | > Computer Network Support Specialist | > CTE Teacher<br>> Computer and Information Systems Managers<br>> Computer Programmers |

Utah CTE classes are open to all qualified students without regard to race, color, national origin, sex, disability, or age.

### Student Testimonial

**“Getting a degree will help me to pursue** my goal of working as a computer programmer at a large company. CTE classes prepared me by showing me what I would actually be doing in the different job fields and how I would apply the information that I learned in class.”

Aaron Montoya  
 Jordan 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 Cybersecurity 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](#)