|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| This Career Pathway Plan of Study should serve as a guide, along with other career planning materials, as learners continue on a career path.  Courses within this plan are recommended coursework for the Cybersecurity and Networking program. | | | | | | | | | |
| **Education**  **Levels** | **Grade** | **English** | **Math** | **Science** | **Social Studies/ Sciences** | **Other Required Courses or Recommended Electives** | **Career & Technical Courses and/or Degree Major Courses** | **Employment Opportunities & Career Ladder** | For further information about pursuing a career in Cybersecurity and Networking, visit:  **SWIC.edu**   * Take placement testing at SWIC in spring of junior year to help you select classes you may need senior year to prepare you to enter college. * Information about Information Technology occupations can be found at http://www.bls.gov/ooh. Check with your counselor to explore course offerings available at your area career center. * Completion of dual credit/enrollment courses if offered with the partnering community college but is not essential for program admission. * Consider retaking ACT/SAT during junior year if score is too low. * **Certificate Programs:** - Network Associate Certificate - Cybersecurity Specialist |
| **Secondary** | **9** | English I  Writing  Language Arts | Algebra I  or Pre-Algebra | Biology I  or Earth Science  or Physical Science | Geography  or World History | Driver's Ed\*  Health\*  P.E. | **9th and 10th Grade Coursework**  Keyboarding  Computer Concepts & Software Applications  Electronic Spreadsheets  Intro to Information Technology  Courses that develop critical thinking skills | **Sample Careers:**   * Assistant Network Manager * Computer Repair Technician * Computer Support Specialist * Network Architect * Network Installer * Network Technician * Server Administrator * Systems Administrator * WAN/LAN Manager   **Career Learning Experiences:**   * Part-time job, work experience * Internship |
| **10** | English II  Writing  Language Arts  Speech or Oral Communications | Geometry  or Algebra I | Chemistry  or Biology I | U.S. Government\*  or Consumer Ed\* | Driver's Ed\*  Health\*  P.E.  Music  World Language |
| **11** | English III  Writing  Language Arts | Algebra II  or Geometry | Chemistry  or Biology I  or Physics | U.S. History | P.E.  Music  World Language | **11th and 12th Grade Coursework**  Computer programming or other computer courses  Computer networking, cybersecurity or cyber literacy  Business courses (Accounting, Finance or Economics) |
| *Complete College Placement Testing* | | | | | |
| **12** | \*\*English IV  Comp/Research\*  \*\*Speech or Oral Communication | Pre-Calculus  or Trigonometry | Chemistry II  or Anatomy/  Physiology  or Physics | Sociology\*  or \*\*Psychology\* | P.E.  Music  World Language |
| **Postsecondary** | *Successfully completed dual credit/enrollment courses do not have to be repeated at postsecondary level.* | | | | | | | |
| Refer to: [**SWIC.edu**](http://www.swic.edu) for Cybersecurity and Networking program requirements. | | | | | | | |
| \*One Semester  \*\*Dual Credit/Dual Enrollment opportunities- students must meet college requirements to enroll. | | | | | | | | | Revised 7-5-19 |