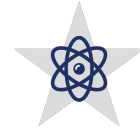


Science, Technology, Engineering, and Mathematics Career Cluster

The Science, Technology, Engineering, and Mathematics (STEM) Career Cluster focuses on planning, managing, and providing, scientific research and professional and technical services, including laboratory and testing services, and research and development services.

Cybersecurity Statewide Program of Study



The Cybersecurity program of study includes the occupations and educational opportunities related to planning, implementing, upgrading, or monitoring security measure for the protection of computer networks and information. This program of study may also include exploration into responding to computer security breaches and virus and administering network security measures.

Secondary Courses for High School Credit

Level 1

- Foundations of Cybersecurity
 - 1 Semester at Ben Barber
 - 1853CT/9-12
- Principles of Information Technology
 - 1 Semester at Ben Barber
 - 1850CT/9-12

Level 2

- Computer Science I – **LOTE Credit**
 - 1 Semester at Ben Barber
 - 1050CT/9-12
 - **Prerequisites: Algebra I**
- AP Computer Science Principles – **LOTE credit & Weighted**
 - 1 Semester at Ben Barber
 - 1266CT/9-12
- Computer Maintenance
 - 2 Semesters at Ben Barber
 - 1829CA-CB/10-12
 - **Prerequisites: Principles of IT**
 - **CompTIA A+ Certification Possible**

Level 3

- AP Computer Science A – **Math/LOTE Credit & Weighted**
 - 2 Semesters at Ben Barber
 - 1055CA-CB/10-12
 - **Prerequisites: AP Computer Science Principles**
- Networking
 - 2 Semesters at Ben Barber
 - 1831CA-CB/10-12
 - **Prerequisites: Computer Maintenance**

Level 4

- Practicum in Information Technology
 - 2 Semesters at Ben Barber
 - 1851CA-CB/11-12
 - Selection Process
- Practicum in STEM
 - 2 Semesters at Ben Barber
 - 1857CA-CB/12 Only
 - Selection Process

Roadmap to Completer

Levels	Courses			
Level 1	1853CT Foundations of Cybersecurity (1 Credit)		1850CT Principles of Information Technology (1Credit)	
Level 2	1050CT Computer Science I (1 Credit)	1266CT AP Computer Science Principles (1 Credit)	1829CA-CB Computer Maintenance (2 Credits)	
Level 4	1055CA-CB AP Computer Science A (2 Credits)		1831CA-CB Networking (2 Credits)	
Level 4	1851CA-CB Practicum in Information Technology (2 Credits) <i>Students must complete a level 1 or 2 course AND a level 3 or 4 course to take a practicum course</i>		1857CA-CB Practicum in STEM (2 Credits) <i>Students must complete a level 1 or 2 course AND a level 3 or 4 course to take a practicum course</i>	
1 Semester Home Campus	2 Semester Home Campus	1 Semester Ben Barber	2 Semesters Ben Barber	Ben Barber or HC

- Failure to follow the sequence of courses in the Roadmap to Completer could result in a student not meeting standards to be a CTE Completer in the program of study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Cybersecurity program of study will fulfill requirements of the STEM and Business & Industry endorsement.