



Information Technology Career Cluster

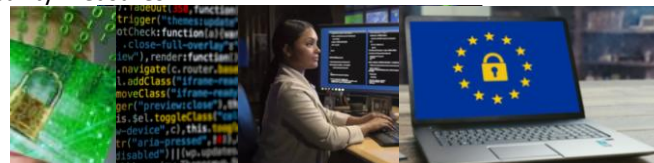
The Information Technology (IT) career cluster focuses on the design, development, support, and management of hardware, software, multimedia, and systems integration services. This career cluster includes occupations ranging from Software Developer and Programmer to Cybersecurity Specialists and Network Analysts.

Statewide Program of Study: Cybersecurity

The Cybersecurity program of study focuses on occupational and educational opportunities associated with planning, implementing, upgrading, or monitoring security measures for the protection of computer networks and information. This program of study includes responding to computer security breaches and viruses and administering network security measures.

Secondary Courses for High School Credit

- Level 1**
- **Principles of Information Technology (1 credit)**
 - 1850CT; 9-12 grade
 - 1 semester at Ben Barber
 - **CompTIA IT Tech+ Possible**
 - **Foundations of Cybersecurity (1 credit)**
 - 1853CT; 9-12 grade
 - 1 semester at Ben Barber
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- Level 2**
- **Computer Science I (1 credit)**
 - 1050CT; 9-12 grade
 - 1 semester at Ben Barber
 - **LOTE credit**
 - *Prerequisite: Algebra I*
 - **Computer Maintenance (2 credits)**
 - 1829CA/CB; 10-12 grade
 - 2 semesters at Ben Barber
 - *Prerequisite: Principles of Information Technology*
 - **CompTIA A+ Certification Possible**
 - **AP Computer Science Principles (1 credit)**
 - 1266CT; 9-12 grade
 - 1 semester at Ben Barber
 - **LOTE and Weighted Credit**
 - *Prerequisite: Algebra I*
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- Level 3**
- **AP Networking (2 credits)**
 - 1831CA/CB; 11-12 grade
 - 2 semesters at Ben Barber
 - *Prerequisite: Computer Maintenance*
 - **Weighted Credit**
 - **CompTIA Network+ Certification Possible**
 - **AP Computer Science A (2 credits)**
 - 1055CA/CB; 10-12 grade
 - 2 semesters at Ben Barber
 - **Math/LOTE Credit and Weighted Credit**
 - *Prerequisite: AP Computer Science Principles*
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- Level 4**
- **Practicum in Information Technology (2 credits)**
 - 1851CA/CB; 12 grade
 - 2 semesters at Ben Barber
 - *Prerequisite: Complete Level 1 or 2 AND Level 3 or 4 AND Selection Process*



Examples Postsecondary Opportunities

Associate Degrees

- Computer and Information Systems Security
- Computer Programming

Bachelor's Degrees

- Computer Science
- Computer Software Engineering

Master's, Doctoral, and Professional Degrees

- Computer and Information Systems Security/Auditing/Information Assurance
- Computer Software Engineering

Additional Stackable IBCs/License

- Certified Ethical Hacker (CEH)



Example Aligned Occupations

Computer User Support Specialists

Median Wage: \$51,411
Annual Openings: 5,757
10-Year Growth: 21%

Software Developers

Median Wage: \$111,705
Annual Openings: 15,324
10-Year Growth: 36%

Information Security Analysts

Median Wage: \$110,268
Annual Openings: 1,719
10-Year Growth: 49%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024.



For more information visit:

<https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/programs-of-study-additional-resources>