



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: Networking Systems

The Networking Systems program of study focuses on occupations and educational opportunities associated with designing and implementing computer and information networks, such as local area networks (LAN), wide area networks (WAN), intranets, extranets, and other data communications networks. This program of study includes analysis of data processing challenges to implementing and improving computer systems.



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**

Level 2

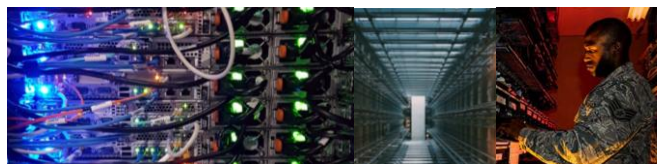
- **Computer Science I (1 credit)**
 - 1050CT; 9-12 grade
 - 1 semester at Ben Barber
 - **LOTE credit**
 - *Prerequisite: Algebra I*
- **Computer Maintenance (2 credits)**
 - 1829CA/CB; 10-12 grade
 - 2 semesters at Ben Barber
 - *Prerequisite: Principles of Information Technology*
 - **CompTIA A+ Certification Possible**
- **AP Computer Science Principles (1 credit)**
 - 1266CT; 9-12 grade
 - 1 semester at Ben Barber
 - **LOTE and Weighted Credit**
 - *Prerequisite: Algebra I*
- **Entrepreneurship (1 credit)**
 - 1720CT or 1720A/B; 9-12 grade
 - 1 semester at Ben Barber or 2 semesters at Home Campus

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**

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*
 - **Microsoft Azure Data Fundamentals Certification Possible**



Example Postsecondary Opportunities

Apprenticeships

- Network Engineer Apprenticeship

Associate Degrees

- Computer Systems Networking and Telecommunications
- Network and System Administration

Bachelor's Degrees

- Computer and Information Sciences
- Information Technology

Master's, Doctoral, and Professional Degrees

- Computer Science
- Information Technology

Additional Stackable IBCs/License

- Aruba Certified Mobility Associate (ACMA)



Example Aligned Occupations

Computer Network Support Specialists

Median Wage: \$65,646
Annual Openings: 1,634
10-Year Growth: 19%

Computer Systems Analysts

Median Wage: \$101,716
Annual Openings: 4,985
10-Year Growth: 19%

Network and Computer Systems Administrators

Median Wage: \$85,375
Annual Openings: 2,900
10-Year Growth: 20%

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>