



Information Technology Career Cluster

The Information Technology (IT) Career Cluster focuses on building linkages in IT occupations for entry level, technical, and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services.

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

Level 2 • Computer Maintenance + Computer Maintenance Lab
• Entrepreneurship I

Level 3 • Networking + Networking Lab

Level 4 • Practicum in Information Technology

Aligned Advanced Academic Courses

Dual Credit Dual credit offerings will vary by Local Education Agency.

Students should be advised to consider these course opportunities to enrich their preparation. AP or IB courses not listed under the Secondary Courses for High School Credit section of this framework document do not count towards Concentrator/Completer status for this program of study.

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities

- Intern at a local education, public service, or technology organization to develop skills in installing hardware and software
- Interview a network administrator to learn about their career path and what credentials they earned to be successful in their role

Expanded Learning Opportunities

- Participate in a Hackathon
- Participate in BPA
Business Professional of America (BPA) is a national, co-curricular, career/technical organization for students in middle school, high school, and college business and technology programs. Students compete at the regional, state, and national levels in more than 50 Workplace Skills Assessment Program events, engage in community and leadership service activities, and meet business students across the state and country through participation in our programs.

Aligned Industry-Based Certifications

- Computer Networking Fundamentals - Job Ready



Example Postsecondary Opportunities

Apprenticeships

- Telecommunications Technician



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/Licensures

- Aruba Certified Mobility Associate (ACMA)



Example Aligned Occupations

Computer Network Support Specialists

Median Wage: \$62,292
Annual Openings: 1,821
10-Year Growth: 30%

Computer Systems Analysts

Median Wage: \$100,036
Annual Openings: 6,190
10-Year Growth: 29%

Network and Computer Systems Administrators

Median Wage: \$79,679
Annual Openings: 3,184
10-Year Growth: 22%





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Statewide Program of Study: Networking Systems Course Information

Level 1

Course	Prerequisites Corequisites	Career Clusters
Principles of Information Technology* 13027200 (1 credit)	Prerequisites: None Corequisites: None	

Level 2

Course	Prerequisites Corequisites	Career Clusters
Computer Maintenance + Computer Maintenance Lab* 13027310 (2 credits)	Prerequisites: None Corequisites: Computer Maintenance	
Entrepreneurship I 13011101 (1 credits)	Prerequisites: None Corequisites: Computer Maintenance	

Level 3

Course	Prerequisites Corequisites	Career Clusters
Networking + Networking Lab 13027410 (2 credit)	Prerequisites: None Corequisites: None	

Level 4

Course	Prerequisites Corequisites	Career Clusters
Practicum in Information Technology* First Time Taken: 13028000 (2 credits)	Prerequisites: A minimum of two high school information technology (IT) courses Corequisites: None	

* Indicates course is included in more than one program of study.

For additional information on the **Information Technology Career Cluster**, contact cte@tea.texas.gov or visit <https://tea.texas.gov/cte>

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