



Information Technology

Networking



| LEVEL 1 | LEVEL 2 | LEVEL 3 | LEVEL 4 |
|--|--------------------------|----------------------|---|
| Principles of Information Technology (1) | Computer Maintenance (1) | Networking / Lab (2) | Practicum in Information Technology (2) |

The **Networking** program of study explores the 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 may also include exploration into analyzing science, engineering, and other data processing problems to implement and improve computer systems.

| Certifications / Degrees | | | | |
|-------------------------------------|---|---|--|--|
| HIGH SCHOOL/ INDUSTRY CERTIFICATION | CERTIFICATE/ LICENSE* | ASSOCIATE'S DEGREE | BACHELOR'S DEGREE | MASTER'S/ DOCTORAL PROFESSIONAL DEGREE |
| CompTIA A+ | AEM 6 Business Practitioner | Computer and Information Sciences, General | Computer and Information Sciences, General | Computer and Information Sciences, General |
| | Intelligence Planner Certification Program | Computer Systems Networking And Tele-communications | Computer Systems Networking And Tele-communications | Information Technology |
| | Cisco Certified Entry Networking Technician | Information Technology | Computer and Information Systems Security/ Information Assurance | Computer and Information Systems Security/ Information Assurance |
| | Microsoft Networking Fundamentals | Network and System Administration/ Administrator | Computer Engineering, General | Computer Engineering, General |

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

| WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES | | Occupation Outlook | | | |
|--|---------------------------------------|--------------------------------------|-------------|-----------------|----------|
| Exploration Activities: | Work Based Learning Activities: | Occupations | Median Wage | Annual Openings | % Growth |
| Join TSA Job shadow a computer network architect or support specialist | Earn an industry-based certification. | Computer Network Architects | \$111,633 | 1,082 | 23% |
| | | Computer Systems Analysts | \$87,568 | 5,937 | 29% |
| | | Computer Network Support Specialists | \$68,037 | 1,824 | 19% |



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 service

Successful completion of the Networking Systems program of study will fulfill requirements of the Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised - July 2020

FOR ADDITIONAL INFORMATION ON THE INFORMATION TECHNOLOGY CAREER CLUSTER, PLEASE CONTACT:

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<https://tea.texas.gov/cte>

