



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

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|---------|--|
| Level 1 | <ul style="list-style-type: none"> Principles of Information Technology |
| Level 2 | <ul style="list-style-type: none"> Computer Maintenance + Lab (ITSC1325/ITSC1305)* Foundations of Business Communication & Tec* (BCIS1305*/POFI2301) |
| Level 3 | <ul style="list-style-type: none"> Networking + Lab (ITNW1358/ITNW1325)* |
| Level 4 | <ul style="list-style-type: none"> Practicum in Information Technology (ITSY1300/ITSY1342)* |

Aligned Advanced Academic Courses

Dual Credit

- | | |
|----------|--------------------------------------|
| BCIS1305 | Business Computer Applications* |
| POFI2301 | Microsoft Word |
| ITSC1325 | Personal Computer Hardware |
| ITSC1305 | Introduction to PC Operating Systems |
| ITSY1300 | Fundamentals of Information Security |
| ITSY1342 | Information Technology Security |

*TVCC's Computer Science Network & Security OSA

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities

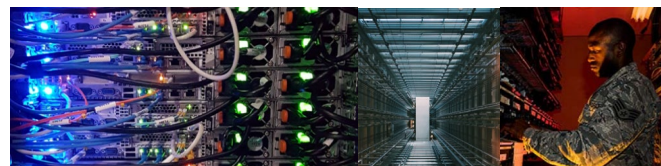
- Intern at a local education, public service, or technology organization to develop skills in installing hardware and software
- Interview a network administrator to learn about their career path and what credentials they earned to be successful in their role

Expanded Learning Opportunities

- Participate in a Hackathon
- Participate in TSA

Aligned Industry-Based Certifications

- CompTIA A+ Certification
- CompTIA Tech+



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: \$63,738
Annual Openings: 1,018
10-Year Growth: 19%

Computer Systems Analysts

Median Wage: \$107,198
Annual Openings: 4,559
10-Year Growth: 19%

Network and Computer Systems Administrators

Median Wage: \$92,363
Annual Openings: 2,292
10-Year Growth: 20%

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