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.

Cybersecurity Statewide Program of Study





The Cybersecurity program of study includes the occupations and educational opportunities related to planning, implementing, upgrading, or monitoring security measure for the protection of computer networks and information. This program of study may also include exploration into responding to computer security breaches and virus and administering network security measures.

Secondary Courses for High School Credit

Level 1

· Principles of Information Technology

Level 2

- Computer Maintenance/Lab (Personal Computer Hardware ITSC1325/Intro to PC Operating Systems ITSC1305)*
- Business Information Management I (BCIS1305*/POFI2301)

Level 3

 Networking/Lab (Network+ & Fundamentals of Networking Technologies: ITNW1358/ ITNW1325)*

Level 4

 Practicum in Information Technology (Fundamentals of Info Security & Info Tech Security: ITSY1300/ITSY1342)*

Postsecondary Opportunities

Associates Degrees

- System Networking, and LAN/WAN Management
- Information Technology
- Computer and Information Sciences, General
- Computer Science

Bachelor's Degrees

- Computer Systems Networking and Telecommunications
- · Computer Systems Networking and Telecommunications
- Computer and Information Sciences, General
- Computer Science

Master's, Doctoral, and Professional Degrees

- Computer Systems Analysis/Analyst
- Information Technology
- Computer Information Sciences, General
- Computer Science

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities

Work-Based Learning
Activities

- Join TSA
- Job shadow a computer system analyst or information security analyst
- Obtain a cybersecurity

 IBC

Industry-Based Certifications

- CompTIA A+ Certification
- CompTIA IT Fundamentals



Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Information Security Analysts	\$91,915	814	29%
Network and Computer System Administrators	\$82,597	2,814	19%
Computer System Analysts	\$87,568	5,937	29%



^{*}TVCC Computer Science Network & Security OSA

Cybersecurity Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Principals of Information Technology	1302700 (1 credit)	None	None

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Computer Maintenance Computer Maintenance (Personal Computer Hardware ITSC1325/Intro to PC Operating Systems ITSC1305)*	13027310 (2 credit)	None	Algebra I
Business Information Management I (BCIS1305*/POFI2301)	13011400 (1 credit)	None	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Networking/Lab (Network+ & Fundamentals of Networking Technologies: ITNW1358/ ITNW1325)*	13027400 (1 credit)	None	None

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Practicum in Information Technology (Fundamentals of Info Security & Info Tech Security: ITSY1300/ITSY1342)*	13028000 (2 credits)	Minimum of two high school Information Technology courses	None

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FOR ADDITIONAL INFORMATION ON THE INFORMATION TECHNOLOGY CAREER CLUSTER,
PLEASE CONTACT: CTE@tea.texas.gov
https://tea.texas.gov/cte

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Further nondiscrimination information can be found at

Notification of Nondiscrimination in Career and Technical Education Programs.