

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.

Information Technology Support and Services Statewide Program of Study



The Information Technology Support and Services program of study explores the occupations and educational opportunities associated with administering, testing, and implementing computer databases and applying knowledge of database management systems. This program of study may also include analyzing user requirements and problems to automate or improve existing systems and review computer system capabilities. This program of study may also include exploration into the research, design, or testing of computer or computer-related equipment for commercial, industrial, military, or scientific use.

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+ ITNW1358/Fundamentals of Networking Technologies ITNW1325)*

Level 4

- Practicum of Information Technology (Fundamentals of Info Security ITSY1300/Info Tech Security ITSY1342)*

*TVCC Networking and Information Security Certificate Requirement

Postsecondary Opportunities

Associates Degrees

- Computer and Information Sciences, General
- Computer and Information Systems Security/ Information Assurance
- Information Technology
- Computer Systems Networking and Telecommunications

Bachelor's Degrees

- Computer and Information Sciences, General
- Computer and Information Systems Security /Information Assurance
- Computer Engineering, General
- Computer Systems Networking and Telecommunications

Master's, Doctoral, and Professional Degrees

- Computer and Information Sciences, General
- Computer Systems Analysis/ Analyst
- Computer Engineering, General
- Information Technology

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities

- Join TSA
- Job shadow a database administrator or computer hardware engineer

Work-Based Learning Activities

- Earn an IT certification

Industry-Based Certifications

- Comp TIA A+ Certification
- CompTIA IT Fundamentals+



Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Database Administrator	\$83,075	1,063	19%
Computer Hardware Engineer	\$111,738	343	24%
Computer System Analyst and Support	\$87,568	5,937	29%

Successful completion of the Information Technology Support and Services program of study will fulfill requirements of the Business and Industry endorsement or STEM endorsement if the math and science requirements are met.

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Information Technology Support and Services

Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Principles of Information Technology	13027200 (1 credit)	None	None

Level 2

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

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
• Networking/Lab (Network+ ITNW1358/ Fundamentals of Networking Technologies ITNW1325)*	13027400 (1 credit)	RPREQ: Principles of Information Technology, Computer Maintenance, and Computer Maintenance Lab CREQ: Networking	None

Level 4

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

*TVCC Networking and Information Security Certificate Requirement

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.](#)