

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: Information Technology Support and Services

The Information Technology Support and Services program of study focuses on occupational and educational opportunities associated with administering, testing, and implementing computer databases and applying knowledge of database management systems. This program of study includes analyzing user requirements, automating or improving existing systems, and reviewing computer system capabilities. It also includes research, design, and 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	 Foundations of Business Communications & Tech* (BCIS1305*/POFI2301) Computer Maintenance + Lab (ITSC1325/ ITSC1305)*
Level 3	Technology Troubleshooting
Level 4	 Practicum in Information Technology (ITSY1300/ITSY1342)*

Aligned Advanced Academic Courses

АР	AP Computer Science A
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 PC Support OSA

Work-Based Learning and Expanded Learning Opportunities

ı	Work-Based Learning Activities	 Intern at a local IT company to develop skills in computer system maintenance and setting up computer equipment Shadow a database administrator or computer software or hardware engineer to learn about their day-to-day responsibilities
	Expanded Learning Opportunities	Participate in TSASubscribe to industry journals

Aligned Industry-Based Certifications

- CompTIA A+ Certification

CompTIA Tech+

Google IT Support Professional Certificate

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Successful completion of the Information Technology Support and Services program of study will fulfill requirements of the Business and Industry endorsement.



Example Postsecondary Opportunities

Apprenticeships

Coding Apprenticeship



Associate Degrees

- **Computer Science**
- Network and System Administration

Bachelor's Degrees

- **Computer and Information Systems** Security/Auditing/Information Assurance
- Computer Engineering

Master's, Doctoral, and Professional Degrees

- Information Science/Studies
- **Electrical and Electronics Engineering**



Example Aligned Occupations

Computer User Support Specialists

Median Wage: \$51,823 Annual Openings: 6,387 10-Year Growth: 21%

Computer Network Support Specialists

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

Computer Hardware Engineers

Median Wage: \$124,632 Annual Openings: 287 10-Year Growth: 14%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024.



For more information visit:

https://tea.texas.gov/academics/college-career-and-militaryprep/career-and-technical-education/it-information-technologysupport-and-services-extendedpptx.pdf