



# 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	<ul style="list-style-type: none"> <li>Principles of Information Technology</li> </ul>
Level 2	<ul style="list-style-type: none"> <li>Foundations of Business Communications &amp; Tech* (BCIS1305*/POFI2301)</li> <li>Computer Maintenance + Lab (ITSC1325/ ITSC1305)* *PC Support OSA</li> </ul>
Level 3	<ul style="list-style-type: none"> <li>Technology Troubleshooting</li> </ul>
Level 4	<ul style="list-style-type: none"> <li>Practicum in Information Technology (ITSY1300/ITSY1342)*</li> </ul>

### Aligned Advanced Academic Courses

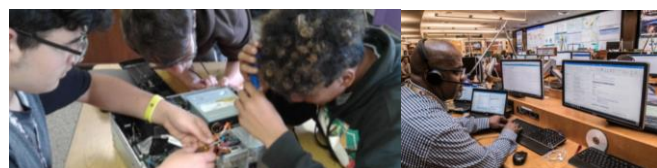
AP	AP Computer Science A
Dual Credit	BCIS1305 Business Computer Applications* POFI2301 Microsoft Word ITSC1325 Personal Computer Hardware ITSC1305 Introduction to PC Operating Systems ITSY1300 Fundamentals of Information Security ITSY1342 Information Technology Security

### Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	<ul style="list-style-type: none"> <li>Intern at a local IT company to develop skills in computer system maintenance and setting up computer equipment</li> <li>Shadow a database administrator or computer software or hardware engineer to learn about their day-to-day responsibilities</li> </ul>
Expanded Learning Opportunities	<ul style="list-style-type: none"> <li>Participate in TSA</li> <li>Subscribe to industry journals</li> </ul>

### Aligned Industry-Based Certifications

- CompTIA A+ Certification
- Google IT Support Professional Certificate
- CompTIA Tech+



### 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%

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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.

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



For more information visit:  
<https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/it-information-technology-support-and-services-extendedpptx.pdf>