



# 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.

## 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** • Computer Maintenance + Computer Maintenance Lab  
• Entrepreneurship I

**Level 3** • None

**Level 4** • Practicum in Information Technology

### Aligned Advanced Academic Courses

<b>AP or IB</b>	AP Computer Science A AP Computer Science Principles	IB Computer Science SL IB Computer Science HL
<b>Dual Credit</b>	Dual credit offerings will vary by Local Education Agency.	

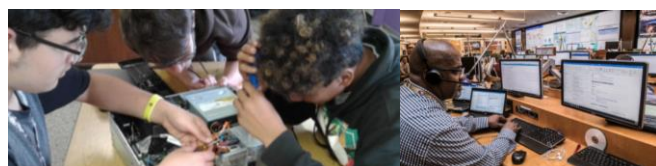
Students should be advised to consider these course opportunities to enrich their preparation. AP or IB courses not listed under the Secondary Courses for High School Credit section of this framework document do not count towards Concentrator/Completer status for this program of study.

### Work-Based Learning and Expanded Learning Opportunities

<b>Work-Based Learning Activities</b>	<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>
<b>Expanded Learning Opportunities</b>	<ul style="list-style-type: none"> <li>Subscribe to industry journals</li> <li>Participate in BPA Business Professionals of America (BPA) is a national, co-curricular career/technical organization for students in middle school, high school, and college business and technology programs. Students compete at the regional, state, and national levels in more than 50 Workplace Skills Assessment Program events, engage in community and leadership service activities, and meet business students across the state and country through participation in our programs.</li> </ul>

### Aligned Industry-Based Certifications

- CompTIA IT Fundamentals+
- Computer Repair Technology - Job Ready



### Example Postsecondary Opportunities

#### Apprenticeships

- Computer Support Specialist

#### 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

#### Additional Stackable IBCs/Licensures

- CompTIA Server+



### Example Aligned Occupations

#### Computer User Support Specialists

Median Wage: \$48,099  
Annual Openings: 8,412  
10-Year Growth: 26%

#### Computer Network Support Specialists

Median Wage: \$62,292  
Annual Openings: 1,821  
10-Year Growth: 30%

#### Computer Hardware Engineers

Median Wage: \$122,409  
Annual Openings: 540  
10-Year Growth: 28%

Data Source: Lightcast™. (2022). Occupation Table. Retrieved 9/27/2022.



For more information visit:  
<https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/programs-of-study-additional-resources>



# Information Technology Career Cluster

Statewide Program of Study: Information Technology Support and Services

## Course Information

Level 1

Course	Prerequisites   Corequisites	Career Clusters
<b>Principles of Information Technology*</b> 13027200 (1 credit)	<b>Prerequisites:</b> None <b>Corequisites:</b> None	

Level 2

Course	Prerequisites   Corequisites	Career Clusters
<b>Computer Maintenance + Computer Maintenance Lab*</b> 13027310 (2 credits)	<b>Prerequisites:</b> None <b>Corequisites:</b> Computer Maintenance	
<b>Entrepreneurship I</b> 13011101 (1 credits)	<b>Prerequisites:</b> None <b>Corequisites:</b> None	

Level 3

Course	Prerequisites   Corequisites	Career Clusters
None		

Level 4

Course	Prerequisites   Corequisites	Career Clusters
<b>Practicum in Information Technology*</b> First Time Taken: 13028000 (2 credits)	<b>Prerequisites:</b> A minimum of two high school information technology (IT) courses <b>Corequisites:</b> None	

\* Indicates course is included in more than one program of study.

For additional information on the **Information Technology Career Cluster**, contact [cte@tea.texas.gov](mailto:cte@tea.texas.gov) or visit <https://tea.texas.gov/cte>

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