



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: Web Development

The Web Development program of study focuses on occupational and educational opportunities associated with designing, creating, and modifying websites. It includes integration of websites with other computer applications and conversion of written, graphic, audio, and video components to compatible web formats using software designed to facilitate the creation of web and multimedia content.

Secondary Courses for High School Credit

- Level 1** • Fundamentals of Computer Science
- Level 2** • Computer Science I
- Level 3** • Web Design
- Level 4** • Practicum in Information Technology (ITSY1300/ITSY1342)

Aligned Advanced Academic Courses

AP	AP Computer Science Principles AP Computer Science A
Dual Credit	ITSY1300 Fundamentals of Information Security ITSY1342 Information Technology Security

Work-Based Learning and Expanded Learning Opportunities

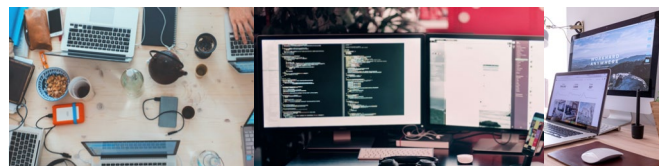
Work-Based Learning Activities	<ul style="list-style-type: none"> Intern at a nonprofit or small business to support developing or updating their website and digital media Shadow a web designer to learn about how they developed their digital design skills and what factors they consider when developing a website
Expanded Learning Opportunities	<ul style="list-style-type: none"> Create a website Participate in TSA

Aligned Industry-Based Certifications

- Information Technology Specialist: HTML and CSS

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Successful completion of the Web Development program of study will fulfill requirements of the STEM endorsement if the math and science requirements are met or the Business and Industry endorsement.



Example Postsecondary Opportunities

Associate Degrees

- Web Page, Digital/Multimedia and Information Resources Design
- Web/Multimedia Management

Bachelor's Degrees

- Computer and Information Sciences
- Information Technology

Master's, Doctoral, and Professional Degrees

- Computer and Information Sciences
- Computer Software Engineering

Additional Stackable IBCs/License

- HTML Developer



Example Aligned Occupations

Web Developers

Median Wage: \$93,184
Annual Openings: 602
10-Year Growth: 24%

Software Developers

Median Wage: \$127,000
Annual Openings: 12,350
10-Year Growth: 36%

Computer and Information Systems Managers

Median Wage: \$164,838
Annual Openings: 5,781
10-Year Growth: 26%

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-web-development-extendedpptx.pdf>