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.

CFISD Program of Study: *Web Development*

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.

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.

Recommended Course Sequence (credits)(A=advanced)

Students wanting an endorsement in this area must select three (3) or more courses totaling four (4) or more credits with at least one being advanced.

Grade 9	• Principles of Information Technology (1-middle school only) • Computer Science I K (1-LOTE) • OR Digital Media (1)
Grade 10	• Web Design (1)
Grade 11	• Web Game Development (1) (A)
Grade 12	• Capstone – Web Development (1) (A)

Aligned Industry-Based Certifications Offered in CFISD

(course) (CCMR=impacts "career ready" status as outlined by the TEA Accountability System for College, Career or Military Readiness)

- Adobe Certified Professional in Visual Design Using Photoshop (Digital Media)
- Information Technology Specialist: HTML and CSS (Web Design) (CCMR)
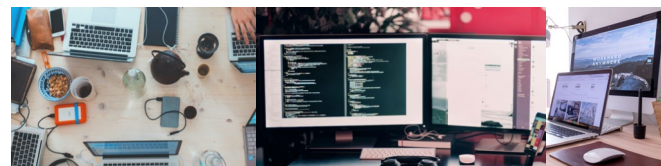
Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	• 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	• Create a website • Participate in SkillsUSA or TSA

CFISD·CTE opportunity starts here

- Receive training on industry-standard material, software & equipment.
- Enhance your resume by earning recognized industry-based certifications.
- Get a jump-start by taking advantage of core curriculum dual credit, transferable to 2-yr and 4-yr degrees.

ALL AT A FRACTION OF THE COST!

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

Data Source: Texas Wages, Texas Workforce Commission. rev 3/8/2024

Web Developers
Median Wage: $77,712
Annual Openings: 1,170
10-Year Growth: 24%

Software Developers
Median Wage: $111,705
Annual Openings: 15,324
10-Year Growth: 36%

Computer and Information Systems Managers
Median Wage: $155,593
Annual Openings: 3,064
10-Year Growth: 26%

Web Development