WEB DEVELOPMENT

INFORMATION TECHNOLOGY

Level 1
Principles of Information Technology

Level 2
Computer Science I

Level 3
Web Design

Level 4
Practicum in Information Technology
Project Based Research
Career Preparation

DUNCANVILLE HIGH SCHOOL/ INDUSTRY CERTIFICATION	POST-SECONDARY OPTIONS			MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	CERTIFICATE / LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	
Oracle Certified Associate Java SE 8	AEM 6 Developer	Computer Programming/ Programmer, General	Web/ Multimedia Management and Webmaster	Computational Science
	Certified Webmaster Professional	Computer Science	Computer Science	Computer Science
Microsoft Technology Associate Introduction to Programming Certifications	Adobe Campaign Developer	Web Page, Digital/ Multimedia and Information Resources Design	Web Page, Digital/ Multimedia and Information Resources Design	Information Science/ Studies
	IBM Certified Solution Developer - OpenSocial	Computer Systems Networking and Tele-communications	Computer Systems Networking and Tele-communications	Computer Systems Networking and Tele-communications

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

Occupations	Median Wage	Annual Openings	% Growth
Web Developers	$67,912	1,079	39%
Web Administrators, Computer Occupations	$85,197	1,616	20%
Software Developers	$104,499	6,311	30%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:	Work Based Learning Activities:
Join TSA Participate in a coding or computer programming club Create a web page	Get an Oracle or CISCO Certification

The Web Development program of study explores the occupations and educational opportunities associated with designing, creating, and modifying websites. This program of study may also explore integrating websites with other computer applications, and converting written, graphic, audio, and video components to compatible web formats by using software designed to facilitate the creation of web and multimedia content.

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.

Successful completion of the Web Development program of study will fulfill requirements of the Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised - July 2020

TEA
Texas Education Agency

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Principles of Information Technology	13027200 (1 credit)	None	9-12
Web Communications	03580810 (.5 credit)	None	9-12
Computer Science I	03580200 (1 credit)	None	9-12
Foundations of User Experience	N1302809 (1 credit)	None	10-12
Web Design	03580820 (1 credit)	None	9-12
Web Game Development	03580830 (1 credit)	None	9-12
Advanced User Experience Design	N1302814 (1 credit)	None	10-12
Practicum in Information Technology	13028000 (2 credit) 13028005 (3 credit) 13028010 (2 credit) 13028015 (3 credit)	PREQ: A minimum of two high school information technology (IT) courses	12
Practicum in Entrepreneurship	TBD	TBD	TBD
Independent Study in Technology Applications	03580900 (.5 to 1 credit)	None	9-12
Independent Study in Evolving/Emerging Technologies	03581500 (.5 to 1 credit)	None	9-12
Project Based Research	12701500 (1 credit)	None	11-12
Career Preparation	12701300 (2 credit) 12701305 (3 credit)	None	11-12