

Web Development

Career Cluster	Information Technology		
Course Code	10201		
Prerequisite(s)	Foundations of Technology (recommended)		
	Introduction to Information Technology (recommended)		
	Computer Science Essentials (recommended)		
Credit	.5-1		
Program of Study and	Web Development is an option inside the Programming Pathway.		
Sequence			
Student Organization	SkillsUSA, Future Business Leaders of America, CyberPatriots		
Coordinating Work-Based	Job Shadowing, Informational Interviews, Tours		
Learning			
Industry Certifications	None		
Dual Credit or Dual	TBD		
Enrollment			
Teacher Certification	Information Technology Cluster Endorsement; Web & Digital Communications Pathway		
	Endorsement; Arts, AV Technology & Communications Cluster Endorsement; K-12 Educational		
	Technology Endorsement; K-12 Classroom Technology Endorsement		
Resources			

Course Description:

Web Development I is a course designed to guide students in a project-based environment implementing web development techniques. Using hypertext markup language (HTML5) coding and Cascading Style Sheets (CSS) students will plan, design, develop, deploy, and maintain website projects. Students will learn fundamentals for a career in web development as they complete projects and create their own website.

Program of Study Application: Web Development is an option inside the Programming Pathway.

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Note:

All Web Development standards integrate aspects of language arts and mathematics.

Course Standards

INDICATOR # M/D 1 Identify basis principles of bay		how it functions and how it is used
INDICATOR # WD 1. Identify basic principles of how	v tne internet is constructed	. now it functions and now it is used.

Webb Level	Sub-Indicator	Integrated Content
Level 1: Recall	WD 1.1 Identify the infrastructure required to access the Internet.	
Level 1: Recall	WD 1.2 Summarize Internet development and functions.	
Level 1: Recall	WD 1.3 Recognize the purpose of domains.	
Level 2: Skill/Concept	WD 1.4 Define the function of a Domain Name Server (DNS).	
Level 1: Recall	WD 1.5 Define important Internet communications protocols and their roles in delivering basic Internet services.	
Level 1: Recall	WD 1.6 Demonstrate knowledge of standard copyright rules.	
Level 2: Skill/Concept	WD 1.7 Explain the use and purpose of acceptable use policy (AUP).	

INDICATOR # WD 2. Demonstrate creation of web pages.

Career Cluster: Information Technology

Course: Web Development

Webb Level	Sub-Indicator	Integrated Content
Level 2: Skill/Concept	WD 2.1 Demonstrate knowledge required to create a web page.	
Level 2: Skill/Concept	WD 2.2 Demonstrate appropriate file structure and naming.	
Level 2: Skill/Concept	WD 2.3 Create web pages with appropriate HTML structure and standards that can be validated using World Wide Web Consortium validator (W3C).	
Level 3: Strategic Thinking	WD 2.4 Demonstrate the use of elements and attributes.	
Level 2: Skill/Concept	WD 2.5 Incorporate meta tags for page documentation and search engine optimization (SEO).	
INDICATOR # WD 3. Forma	at web pages using Cascading Style Sheets (CSS).	
Webb Level	Sub-Indicator	Integrated Content
Level 2: Skill/Concept	WD 3.1 Apply essential aspects of the CSS.	
Level 2: Skill/Concept	WD 3.2 Apply CSS to a website.	
Level 3: Strategic Thinking	WD 3.3 Use basic selectors in a CSS.	

Career Cluster: Information Technology

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INDICATOR # WD 4. Plan, design, implement, and maintain website(s).				
Webb Level	Sub-Indicator	Integrated Content		
Level 2: Skill/Concept	WD 4.1 Analyze project requirements.			
Level 3: Strategic Thinking	WD 4.2 Plan site design and page layout.			
Level 4: Extended Thinking	WD 4.3 Create basic content for website.			
Level 4: Extended Thinking	WD 4.4 Edit and revise a site.			
INDICATOR # WD 5. Explore careers in Web Development.				
Webb Level	Sub-Indicator	Integrated Content		
Level 2: Skill/Concept	WD 5.1 Explore Information Technology (IT) Web Development careers.			
Level 2: Skill/Concept	WD 5.2 Demonstrate job skills for programming industries.			