Course Title: Web Page Design	**Length of Course:** 15 cycles
Grade Level(s): 10-12	**Periods Per Cycle:** 6
Units of Credit: .5	**Length of Period:** 43 minutes
Classification: Elective	**Total Instructional Time:** 64.5 hours

Course Description

This course teaches students how to create web pages using both HTML and Dreamweaver. Students will learn the specifics of creating a web page in both languages, as well as be provided the opportunity to create a website for a community business. Focus – HTML & Adobe Dreamweaver

Instructional Strategies, Learning Practices, Activities, and Experiences

Content Introductions	Quizzes	Final Projects
Hands-On Practice Through HTML "Steps"	Independent Research	Guest Speakers/Success Stories
Hands-On Practice Through Adobe Dreamweaver Tutorial	Peer Review	Competitions

Assessments

HyperText Markup Language (HTML) Chapters (4)	Adobe Dreamweaver Tutorial	Adobe Dreamweaver Final Project
Web Master Page	(Part 1, Part 2, and Completed)	(Progress Checks and Completed Project)
(Progress Checks and Completed Project)		

Materials/Resources

HTML: Introductory Concepts and Techniques Textbook	Adobe Dreamweaver Tutorial	iPad, VMware Horizon (Virtual Desktop) App

Adopted: 8/06

Revised: 8/17/09; 5/21/18

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HTML: HyperText Markup Language

CONTENT/KEY CONCEPTS	OBJECTIVES/STANDARDS
Introduction To HyperText Markup Language (HTML) Related Vocabulary: Internet network internet backbone internet service provider World Wide Web hypertext transfer protocol web pages website home page web server publishing internet site electronic commerce intranet extranet web browser Uniform Resource Locator (URL) hyperlink hypertext markup language tags platform independent Cascading Style Sheets Dynamic HTML Extensible Markup Language Extensible Hypertext Markup Language (HTML) text editor HTML Text Editor HTML Object Editor What You See Is What You Get (WYSIWYG) Editor linear web site structure	The students will be able to: • Describe the Internet and its associated key terms. • Describe the World Wide Web and its associated key terms. • Identify the types and purposes of websites. • Discuss web browsers and identify their purpose. • Define Hypertext Markup Language (HTML) and the standards used for Web development. • Discuss the use of Cascading Style Sheets in Web development. • Define Dynamic Hypertext Markup Language (DHTML) and describe its relationship to HTML. • Define Extensible Hypertext Markup Language (XHTML) and describe its relationship to HTML. • Describe tools used to create HTML documents. • Discuss the five phases of the web development life cycle. • Describe website design and the purpose of each website structure. • Describe the importance of testing throughout the web development life cycle. **15.4.12.A** ~ Apply the creative and productive use of emerging technologies for educational and personal success. **15.4.12.B** ~ Evaluate the impact of social, legal, ethical, and safe behaviors on digital citizenship. **15.4.12.C** ~ Develop criteria for analyzing hardware options to meet defined needs. **15.4.12.D** ~ Evaluate emerging input technologies. **15.4.12.F** ~ Compare and contrast network environments, including the function of network devices and connectivity issues. **15.4.12.G** ~ Create an advanced digital project using sophisticated design and appropriate software/applications. **15.4.12.H** ~ Use programming languages to develop logical thinking and problem solving skills. **15.4.12.I** ~ Compare and contrast programming languages; select most appropriate one to complete a specific task. **15.4.12.L** ~ Find and use primary documentation; employ an accepted protocol for citation. **15.4.12.M** ~ Evaluate the impact of emerging technologies on various career paths and provide examples of industry certifications within the field.

HTML: HyperText Markup Language (Continued)	
CONTENT/KEY CONCEPTS	**OBJECTIVES/STANDARDS**
Related Vocabulary: (Continued) hierarchical website structure webbed website structure broad website structure deep website structure usability usability testing compatibility testing stress testing website logs	

HTML: HyperText Markup Language (Continued)

CONTENT/KEY CONCEPTS	OBJECTIVES/STANDARDS
Creating and Editing a Web Page Related Vocabulary: notepad title window element favorites window element body window element background window element normal text element list text element headings text element inline image element image map element hotspot image element animated image element horizontal rules image element link element document type definition word wrap unordered list ordered list definition list home page graphic interchange format joint photographic experts group portable network graphic attributes source code hard copy	The students will be able to: • Identify elements of a web page. • Start Notepad and describe the Notepad window. • Enable word wrap in Notepad. • Enter HTML tags. • Enter a centered heading and a paragraph of text. • Create an unordered, ordered, or definition list. • Save an HTML file. • Use a browser to view a web page. • Activate Notepad. • Identify web page image types and attributes. • Add an image, change the background color of a web page, and add a horizontal rule. • View the HTML source code in a browser. • Print a web page and an HTML file. • Quite Notepad and a browser. **15.4.12.A** ~ Apply the creative and productive use of emerging technologies for educational and personal success. **15.4.12.B** ~ Evaluate the impact of social, legal, ethical, and safe behaviors on digital citizenship. **15.4.12.C** ~ Develop criteria for analyzing hardware options to meet defined needs. **15.4.12.D** ~ Evaluate emerging input technologies. **15.4.12.F** ~ Compare and contrast network environments, including the function of network devices and connectivity issues. **15.4.12.G** ~ Create an advanced digital project using sophisticated design and appropriate software/applications. **15.4.12.H** ~ Use programming languages to develop logical thinking and problem solving skills. **15.4.12.I** ~ Compare and contrast programming languages; select most appropriate one to complete a specific task. **15.4.12.L** ~ Find and use primary documentation; employ an accepted protocol for citation. **15.4.12.M** ~ Evaluate the impact of emerging technologies on various career paths and provide examples of industry certifications within the field.

HTML: HyperText Markup Language (Continued)

CONTENT/KEY CONCEPTS	OBJECTIVES/STANDARDS
Creating Web Pages with Links, Images, and Formatted Text Related Vocabulary: email link anchor tag path absolute path relative path target logical style tags physical style tags thumbnail image	The students will be able to: • Describe linking terms and definitions. • Create a home page and enhance a web page using images. • Align and add bold, italics, and color to text. • Change the bullet type used in an unordered list. • Add a text link to a web page in the same website. • Add an e-mail link. • Use absolute and relative paths. • Save and view an HTML file and test the links. • Open an HTML file. • Add an image with wrapped text. • Add a text link to a web page on another website. • Add links to targets within a web page. • Copy and paste HTML code. • Add an image link to a web page in the same website. **15.4.12.A** ~ Apply the creative and productive use of emerging technologies for educational and personal success. **15.4.12.B** ~ Evaluate the impact of social, legal, ethical, and safe behaviors on digital citizenship. **15.4.12.C** ~ Develop criteria for analyzing hardware options to meet defined needs. **15.4.12.D** ~ Evaluate emerging input technologies. **15.4.12.F** ~ Compare and contrast network environments, including the function of network devices and connectivity issues. **15.4.12.G** ~ Create an advanced digital project using sophisticated design and appropriate software/applications. **15.4.12.H** ~ Use programming languages to develop logical thinking and problem solving skills. **15.4.12.I** ~ Compare and contrast programming languages; select most appropriate one to complete a specific task. **15.4.12.L** ~ Find and use primary documentation; employ an accepted protocol for citation. **15.4.12.M** ~ Evaluate the impact of emerging technologies on various career paths and provide examples of industry certifications within the field.

HTML: HyperText Markup Language (Continued)

CONTENT/KEY CONCEPTS	OBJECTIVES/STANDARDS
Creating Tables In a Website Related Vocabulary: tables row column cell heading cell data cell table border table header table caption rules attribute cell spacing cell padding colspan attribute rowspan attribute	The students will be able to: • Define table elements. • Describe the steps used to plan, design, and code a table. • Create a borderless table to position images. • Create a horizontal menu bar with text links. • Copy and paste HTML code to a new file. • Create a borderless table to organize text. • Create a table with borders and insert text. • Change the horizontal alignment of text. • Add background color to rows and cells. • After the spacing between and within cells using the cell spacing and cell padding attributes. • Insert a caption below a table. • Create headings that span rows and columns using the rowspan and colspan attributes. **15.4.12.A** ~ Apply the creative and productive use of emerging technologies for educational and personal success. **15.4.12.B** ~ Evaluate the impact of social, legal, ethical, and safe behaviors on digital citizenship. **15.4.12.C** ~ Develop criteria for analyzing hardware options to meet defined needs. **15.4.12.D** ~ Evaluate emerging input technologies. **15.4.12.F** ~ Compare and contrast network environments, including the function of network devices and connectivity issues. **15.4.12.G** ~ Create an advanced digital project using sophisticated design and appropriate software/applications. **15.4.12.H** ~ Use programming languages to develop logical thinking and problem solving skills. **15.4.12.I** ~ Compare and contrast programming languages; select most appropriate one to complete a specific task. **15.4.12.L** ~ Find and use primary documentation; employ an accepted protocol for citation. **15.4.12.M** ~ Evaluate the impact of emerging technologies on various career paths and provide examples of industry certifications within the field.

Adobe Dreamweaver	
CONTENT/KEY CONCEPTS	**OBJECTIVES/STANDARDS**
Getting Started with Dreamweaver Related Vocabulary: Website Extensible HyperText Markup Language (XHTML) HTML web browser files panel Dreamweaver workspace document window application bar insert panel document toolbar standard toolbar style rendering toolbar related files toolbar related files coding toolbar property inspector status bar tag selector panel panel groups dock view design view code view show code and design views debugging home page text hyperlinks images banners	The students will be able to: • Explore the Dreamweaver workspace. • View a web page and use help. • Plan and define a website. • Add a folder and pages. **15.4.12.A** ~ Apply the creative and productive use of emerging technologies for educational and personal success. **15.4.12.B** ~ Evaluate the impact of social, legal, ethical, and safe behaviors on digital citizenship. **15.4.12.C** ~ Develop criteria for analyzing hardware options to meet defined needs. **15.4.12.D** ~ Evaluate emerging input technologies. **15.4.12.F** ~ Compare and contrast network environments, including the function of network devices and connectivity issues. **15.4.12.G** ~ Create an advanced digital project using sophisticated design and appropriate software/applications. **15.4.12.H** ~ Use programming languages to develop logical thinking and problem solving skills. **15.4.12.I** ~ Compare and contrast programming languages; select most appropriate one to complete a specific task. **15.4.12.L** ~ Find and use primary documentation; employ an accepted protocol for citation. **15.4.12.M** ~ Evaluate the impact of emerging technologies on various career paths and provide examples of industry certifications within the field.

Adobe Dreamweaver (Continued)	
CONTENT/KEY CONCEPTS	**OBJECTIVES/STANDARDS**
Related Vocabulary: (Continued) navigation bars image map navigation structure rich media content storyboard parent page child page root folder assets publishing web server Internet Service Providers (ISPS) file transfer protocol	

Adobe Dreamweaver (Continued)	
CONTENT/KEY CONCEPTS	**OBJECTIVES/STANDARDS**
Developing a Web Page Related Vocabulary: head content meta tags Platform For Internet Content Selection keywords Web-Safe-Color Palette description body background color Cascading Style Sheet (CSS) CSS block default font and link colors default color for unvisited links default color for visited links tags font combination broken links point of contact navigation bar history panel step slider code inspector JavaScript function rollover	The students will be able to: • Create head content and set page properties. • Create, import, and format text. • Add links to web pages. • Use the history panel and edit code. • Modify and test web pages. **15.4.12.A** ~ Apply the creative and productive use of emerging technologies for educational and personal success. **15.4.12.B** ~ Evaluate the impact of social, legal, ethical, and safe behaviors on digital citizenship. **15.4.12.C** ~ Develop criteria for analyzing hardware options to meet defined needs. **15.4.12.D** ~ Evaluate emerging input technologies. **15.4.12.F** ~ Compare and contrast network environments, including the function of network devices and connectivity issues. **15.4.12.G** ~ Create an advanced digital project using sophisticated design and appropriate software/applications. **15.4.12.H** ~ Use programming languages to develop logical thinking and problem solving skills. **15.4.12.I** ~ Compare and contrast programming languages; select most appropriate one to complete a specific task. **15.4.12.L** ~ Find and use primary documentation; employ an accepted protocol for citation. **15.4.12.M** ~ Evaluate the impact of emerging technologies on various career paths and provide examples of industry certifications within the field.

Adobe Dreamweaver (Continued)	
CONTENT/KEY CONCEPTS	**OBJECTIVES/STANDARDS**
Working with Text and Images Related Vocabulary: Cascading Style Sheets unordered lists bullet ordered lists rules external style sheet internal or embedded styles inline styles class type id type and tag type compound type selector declaration Graphic Interchange Format (GIF) Joint Photographic Experts Group (JPEG) Portable Network Graphics (PNG) opacity assets panel favorites aligning enhancing an image borders alternate text screen reader background images tiled image Non-Web-Safe Colors	The students will be able to: • Create unordered and ordered lists. • Create, apply, and edit Cascading Style Sheets. • Add rules and attach Cascading Style Sheets. • Insert and align graphics. • Enhance an image and use alternate text. **15.4.12.A** ~ Apply the creative and productive use of emerging technologies for educational and personal success. **15.4.12.B** ~ Evaluate the impact of social, legal, ethical, and safe behaviors on digital citizenship. **15.4.12.C** ~ Develop criteria for analyzing hardware options to meet defined needs. **15.4.12.D** ~ Evaluate emerging input technologies. **15.4.12.F** ~ Compare and contrast network environments, including the function of network devices and connectivity issues. **15.4.12.G** ~ Create an advanced digital project using sophisticated design and appropriate software/applications. **15.4.12.H** ~ Use programming languages to develop logical thinking and problem solving skills. **15.4.12.I** ~ Compare and contrast programming languages; select most appropriate one to complete a specific task. **15.4.12.L** ~ Find and use primary documentation; employ an accepted protocol for citation. **15.4.12.M** ~ Evaluate the impact of emerging technologies on various career paths and provide examples of industry certifications within the field.

Adobe Dreamweaver (Continued)	
CONTENT/KEY CONCEPTS	**OBJECTIVES/STANDARDS**
Working with Links Related Vocabulary: internal links external links absolute path Uniform Resource Locator (URL) relative path named anchor target element state of the element up image over image down image over while down image image map hotspot orphaned files	The students will be able to: ● Create external and internal links. ● Create internal links to named anchors. ● Create, modify, and copy a navigation bar. ● Create an image map. ● Manage website links. **15.4.12.A** ~ Apply the creative and productive use of emerging technologies for educational and personal success. **15.4.12.B** ~ Evaluate the impact of social, legal, ethical, and safe behaviors on digital citizenship. **15.4.12.C** ~ Develop criteria for analyzing hardware options to meet defined needs. **15.4.12.D** ~ Evaluate emerging input technologies. **15.4.12.F** ~ Compare and contrast network environments, including the function of network devices and connectivity issues. **15.4.12.G** ~ Create an advanced digital project using sophisticated design and appropriate software/applications. **15.4.12.H** ~ Use programming languages to develop logical thinking and problem solving skills. **15.4.12.I** ~ Compare and contrast programming languages; select most appropriate one to complete a specific task. **15.4.12.L** ~ Find and use primary documentation; employ an accepted protocol for citation. **15.4.12.M** ~ Evaluate the impact of emerging technologies on various career paths and provide examples of industry certifications within the field.

Adobe Dreamweaver (Continued)	
CONTENT/KEY CONCEPTS	**OBJECTIVES/STANDARDS**
Positioning Objects with CSS and Tables Related Vocabulary: Cascading Style Sheets (CSS) Page Layout div tags tables rows column behaviors Absolute-Positioned (AP) div tag AP Element border nested table cell padding cell walls cell spacing What-You-See-Is-What-You-Get (WYSIWYG) table headers split merge	The students will be able to: - Create a page using CSS layouts. - Add content to CSS layout blocks. - Edit content in CSS layout blocks. - Create a table. - Resize, split, and merge cells. - Insert and align Images in table cells. - Insert text and formal cell content. **15.4.12.A** ~ Apply the creative and productive use of emerging technologies for educational and personal success. **15.4.12.B** ~ Evaluate the impact of social, legal, ethical, and safe behaviors on digital citizenship. **15.4.12.C** ~ Develop criteria for analyzing hardware options to meet defined needs. **15.4.12.D** ~ Evaluate emerging input technologies. **15.4.12.F** ~ Compare and contrast network environments, including the function of network devices and connectivity issues. **15.4.12.G** ~ Create an advanced digital project using sophisticated design and appropriate software/applications. **15.4.12.H** ~ Use programming languages to develop logical thinking and problem solving skills. **15.4.12.I** ~ Compare and contrast programming languages; select most appropriate one to complete a specific task. **15.4.12.L** ~ Find and use primary documentation; employ an accepted protocol for citation. **15.4.12.M** ~ Evaluate the impact of emerging technologies on various career paths and provide examples of industry certifications within the field.

Adobe Dreamweaver (Continued)	
CONTENT/KEY CONCEPTS	**OBJECTIVES/STANDARDS**
Managing a Web Server and Files Related Vocabulary: cloaked design notes web server secure file transfer protocol (FTP) upload download copyright trademark fair use public domain licensing agreement terms of use permissions process	The students will be able to: • Perform website maintenance. • Publish a website and transfer files. • Check files out and in. • Cloak files. • Import and export a site definition. • Evaluate web content for legal use. **15.4.12.A** ˜ Apply the creative and productive use of emerging technologies for educational and personal success. **15.4.12.B** ˜ Evaluate the impact of social, legal, ethical, and safe behaviors on digital citizenship. **15.4.12.C** ˜ Develop criteria for analyzing hardware options to meet defined needs. **15.4.12.D** ˜ Evaluate emerging input technologies. **15.4.12.F** ˜ Compare and contrast network environments, including the function of network devices and connectivity issues. **15.4.12.G** ˜ Create an advanced digital project using sophisticated design and appropriate software/applications. **15.4.12.H** ˜ Use programming languages to develop logical thinking and problem solving skills. **15.4.12.I** ˜ Compare and contrast programming languages; select most appropriate one to complete a specific task. **15.4.12.L** ˜ Find and use primary documentation; employ an accepted protocol for citation. **15.4.12.M** ˜ Evaluate the impact of emerging technologies on various career paths and provide examples of industry certifications within the field.

Adobe Dreamweaver (Continued)	
CONTENT/KEY CONCEPTS	**OBJECTIVES/STANDARDS**
Using Styles and Style Sheets for Design Related Vocabulary: external style sheet embedded CSS styles embedded styles inline styles custom styles all rules pane properties pane rules pane code hints	The students will be able to: • Create and use embedded styles. • Modify embedded styles. • Work with external CSS style sheets. • Work with conflicting styles. • Use coding tools to view and edit styles. **15.4.12.A** ~ Apply the creative and productive use of emerging technologies for educational and personal success. **15.4.12.B** ~ Evaluate the impact of social, legal, ethical, and safe behaviors on digital citizenship. **15.4.12.C** ~ Develop criteria for analyzing hardware options to meet defined needs. **15.4.12.D** ~ Evaluate emerging input technologies. **15.4.12.F** ~ Compare and contrast network environments, including the function of network devices and connectivity issues. **15.4.12.G** ~ Create an advanced digital project using sophisticated design and appropriate software/applications. **15.4.12.H** ~ Use programming languages to develop logical thinking and problem solving skills. **15.4.12.I** ~ Compare and contrast programming languages; select most appropriate one to complete a specific task. **15.4.12.L** ~ Find and use primary documentation; employ an accepted protocol for citation. **15.4.12.M** ~ Evaluate the impact of emerging technologies on various career paths and provide examples of industry certifications within the field.