

Web Page Design

7815

(2009)

Web Page Design

Course Description:	Web Page Design is a course intended to develop basic programming skills and Web page layout utilizing Hyper Text Mark Up Language and a variety of software (I.e. Dreamweaver, Photoshop, Flash). It will use a “hands-on” approach and the emphasis will be on real life correlations. The course will cover all the basics and most advanced Web design functions, and it will provide a first step into programming for those interested in computer science or Web related careers.
Grade Level:	10-12
Length of Course:	Frequency: 6 days per 6 day cycle Duration: 44 minutes Length: full year course Credits: 1
Prerequisites:	Successful completion of Intermediate Microsoft Word highly suggested due to the multitude of typing.
Textbook:	Creating Web Pages with HTML
Expected Level of Achievement	Students will be required to maintain a 70% or better. They will be required to come to class prepared to learn. 93-100% = A 85 – 92% = B 77 – 84% = C 70 – 76% = D Below 70% = F

Northern York County School District Curriculum

Course Name:	Web Page Design
Content:	Design and layout for publishable Web pages
Key Learning(s):	Web designers need to understand how the World Wide Web is structured and operates and learn the basics of HTML used to create Web sites.
Essential Question(s)	How are Web Pages linked on the Internet? What are the basic principles of Web documents?
Vocabulary	Hypertext, WAN, LAN, HTML, web server, web browser, XML, XHTML, tags, attribute, external image, inline image.
Grade Level	10-12

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.7.4.C	Identify basic computer operations and concepts.	-Explore the structure of the World Wide Web.	Evaluate review questions.	Student text: <i>Creating Web Pages with HTML, Third Edition</i> © 2003, Course Technology, Thomson Learning Teacher-prepared programs Audiovisual Media
3.7.7.C	Explain and demonstrate basic computer operations and concepts.	-Discuss basic principles of Web documents.	Evaluate reinforcement applications.	
3.7.4.D	Use basic computer software.	-Discussion of copyright issues relating to Web authoring.	Award points for successful completion of exercises.	
3.7.7.D	Apply computer software to solve problems.	-Create an HTML document.	Evaluate with application exercises, chapter tests, unit tests, book programs, and teacher designed projects.	
3.7.10.D	Utilize computer software to solve specific problems	-View an HTML file using a Web browser.		
		-Use HTML tags for text, headings, paragraphs, and lists.		
		-Insert character tags into an HTML document.		
		-Add special characters to an HTML document.		
		-Insert horizontal lines into an HTML document.		

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Course Name:	Web Page Design
Content:	Design and layout for publishable Web pages
Key Learning(s):	Anchors on a Web page allow users to navigate to areas of interest within the page.
Essential Question(s)	What are hypertext links?
Vocabulary	Anchors, links, hypertext reference, storyboarding, linear structures, hierarchical structures, mixed structures, absolute pathnames, relative pathnames, URL, Hypertext Transfer Protocol, FTP servers, Usenet.
Grade Level	10-12

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.7.4.C	Identify basic computer operations and concepts.	-Create hypertext links between elements within a Web Page.	Evaluate review questions.	Student text and workbook: <i>Introduction to Computer Science Using C++</i> , Third Edition © 2002, Course Technology, Thomson Learning Teacher-prepared programs Audiovisual Media
3.7.7.C	Explain and demonstrate basic computer operations and concepts.	-Create hypertext links between Web pages.	Evaluate reinforcement applications.	
3.7.4.D	Use basic computer software.	-Review basic Web page structures.	Award points for successful completion of exercises.	
3.7.7.D	Apply computer software to solve problems.	-Create hypertext links to pages on the Internet.	Evaluate with application exercises, chapter tests, unit tests, book programs, and teacher designed projects.	
3.7.10.D	Utilize computer software to solve specific problems.	-Explain the difference between absolute and relative path names. -Create hypertext links to various Internet resources, including FTP servers and newsgroups.		

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Course Name:	Web Page Design
Content:	Design and layout for publishable Web pages
Key Learning(s):	Web designers must consider how color can affect the overall message of a Web page.
Essential Question(s)	Why is color so important to a Web page?
Vocabulary	Color value, RGB, hexadecimal, tiling, deprecated tags, GIF, interlacing, transparent color, animated GIF, JPEG, PNG, alt, image maps, client side maps, server side maps, hotspot.
Grade Level	10-12

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.7.4.C	Identify basic computer operations and concepts.	-Learn how HTML handles color.	Evaluate review questions.	Student text and workbook: <i>Introduction to Computer Science Using C++</i> , Third Edition © 2002, Course Technology, Thomson Learning Teacher-prepared programs Audiovisual Media
3.7.7.C	Explain and demonstrate basic computer operations and concepts.	-Create a color scheme for a Web page.	Evaluate reinforcement applications.	
3.7.4.D	Use basic computer software.	-Work with font sizes, colors, and types.	Award points for successful completion of exercises.	
3.7.7.D	Apply computer software to solve problems.	-Insert a background on a page.	Evaluate with application exercises, chapter tests, unit tests, book programs, and teacher designed projects.	
3.7.10.D	Utilize computer software to solve specific problems	-Define colors for a Web page and for specific characters.		
		-Explain the different image file formats.		
		-Control the placement and appearance of images on a Web page.		
		-Create a client side image map (rectangle, circle, poly).		
		-Use the ALT attribute.		

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Course Name:	Web Page Design
Content:	Design and layout for publishable Web pages
Key Learning(s):	There are different ways to control Web page layout.
Essential Question(s)	What are the advantages to using tables on a Web page?
Vocabulary	Graphical table, fixed width font, proportional font, header, footer, caption, nested, cell, cell span, row span, cell padding, cell spacing, frame, rules, alignment.
Grade Level	10-12

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.7.4.C	Identify basic computer operations and concepts.	-Create a text table.	Evaluate review questions.	Student text and workbook: <i>Introduction to Computer Science Using C++</i> , Third Edition © 2002, Course Technology, Thomson Learning Teacher-prepared programs Audiovisual Media
3.7.7.C	Explain and demonstrate basic computer operations and concepts.	-Create a table using the <table>, <tr>, and <td> tags.	Evaluate reinforcement applications.	
3.7.4.D		-Create a table using headers and footers.	Award points for successful completion of exercises.	
3.7.7.D	Use basic computer software.	-Control the appearance of a table and table text.	Evaluate with application exercises, chapter tests, unit tests, book programs, and teacher designed projects.	
3.7.10.D	Apply computer software to solve problems.	-Create table headers and captions.		
	Utilize computer software to solve specific problems	-Control the appearance of a table and table text. -Create table cells that span several rows or columns. -Use nested tables to enhance design. -Discuss Internet Explorer extensions for use with tables. -Utilize the pre tag.		

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Course Name:	Web Page Design
Content:	Design and layout for publishable Web pages
Key Learning(s):	Frames are another way to control placement of information in a Web page.
Essential Question(s)	What are the reasons for and against using frames on a Web page?
Vocabulary	Frame definition, frame orientation, scroll bars, link target, reserved target names, floating frames.
Grade Level	10-12

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.7.4.C	Identify basic computer operations and concepts.	-Create frames for a Web page.	Evaluate review questions.	Student text and workbook: <i>Introduction to Computer Science Using C++</i> , Third Edition © 2002, Course Technology, Thomson Learning Teacher-prepared programs Audiovisual Media
3.7.7.C	Explain and demonstrate basic computer operations and concepts.	-Control the appearance and placement of frames.	Evaluate reinforcement applications.	
3.7.4.D	Use basic computer software.	-Control the behavior of hypertext links on a Web page with frames.	Award points for successful completion of exercises.	
3.7.7.D	Apply computer software to solve problems.	-Use reserved target names to specify a target for a hyperlink text.	Evaluate with application exercises, chapter tests, unit tests, book programs, and teacher designed projects.	
3.7.10.D	Utilize computer software to solve specific problems	-Create a Web page that is viewable by browsers that support frames and by those that do not. -Modify the appearance of frame borders. -Create and implement floating frames.		

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Course Name:	Web Page Design
Content:	Design and layout for publishable Web pages
Key Learning(s):	Web sites often collect information from a user with a Web page form.
Essential Question(s)	What is a CGI script?
Vocabulary	CGI script, field, password field, form labels, selection list, option values, option groups, radio buttons, push buttons, submit button, reset button, access key.
Grade Level	10-12

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.7.4.C	Identify basic computer operations and concepts.	-Describe CGI scripts.	Evaluate review questions.	Student text and workbook: <i>Introduction to Computer Science Using C++</i> , Third Edition © 2002, Course Technology, Thomson Learning Teacher-prepared programs Audiovisual Media
3.7.7.C	Explain and demonstrate basic computer operations and concepts.	-Review the various parts of an online form.	Evaluate reinforcement applications.	
3.7.4.D	Use basic computer software.	-Create form elements.	Award points for successful completion of exercises.	
3.7.7.D	Apply computer software to solve problems.	-Create a hidden field on a form.	Evaluate with application exercises, chapter tests, unit tests, book programs, and teacher designed projects.	
3.7.10.D	Utilize computer software to solve specific problems	-Work with form attributes.		
		-Learn how to send data from a form to a CGI script.		
		-Learn how to send form information without using CGI scripts.		

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Course Name:	Web Page Design
Content:	Design and layout for publishable Web pages
Key Learning(s):	Cascading style sheets are used to improve continuity within a Web site.
Essential Question(s)	Why use cascading style sheets on a web site?
Vocabulary	Inline style, embedded style, external style, style sheet, inheritance, precedence, specific font, generic font, pseudo-class, pseudo-element, block-level element, inline element.
Grade Level	10-12

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.7.4.C	Identify basic computer operations and concepts.	-Discuss the history and theory behind the development of CSS.	Evaluate review questions.	Student text and workbook: <i>Introduction to Computer Science Using C++</i> , Third Edition © 2002, Course Technology, Thomson Learning Teacher-prepared programs Audiovisual Media
3.7.7.C	Explain and demonstrate basic computer operations and concepts.	-Create inline, embedded, and external styles.	Evaluate reinforcement applications.	
3.7.4.D	Use basic computer software.	-Explain style inheritance and precedence. -Use CSS to format paragraphs, lists, and headings. -Design a style for hypertext links in their four conditions.	Award points for successful completion of exercises.	
3.7.7.D	Apply computer software to solve problems.	-Utilize the id and class attributes. -Create block-level elements with and <div>.	Evaluate with application exercises, chapter tests, unit tests, book programs, and teacher designed projects.	
3.7.10.D	Utilize computer software to solve specific problems	-Use CSS to design a page layout.		

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Course Name:	Web Page Design
Content:	Design and layout for publishable Web pages
Key Learning(s):	JavaScript allows for more user interactivity on a Web Page by creating specialized programs when the page is opened.
Essential Question(s)	What are some of the advantages and disadvantages to using Java Script on a Web page?
Vocabulary	JavaScript, compiling, applet, variable, Boolean variable, null variable, method, operator, expression, assignment operator, arithmetic operator, increment operator, math object, functions, parameters, command block, comparison operator, logical operator, array, loop.
Grade Level	10-12

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.7.4.C	Identify basic computer operations and concepts.	-Explain the features of JavaScript.	Evaluate review questions.	Student text and workbook: <i>Introduction to Computer Science Using C++</i> , Third Edition © 2002, Course Technology, Thomson Learning Teacher-prepared programs Audiovisual Media
3.7.7.C	Explain and demonstrate basic computer operations and concepts.	-Send output to a Web page.	Evaluate reinforcement applications.	
3.7.4.D	Use basic computer software.	-Work with variables and data.	Award points for successful completion of exercises.	
3.7.7.D	Apply computer software to solve problems.	-Work with expressions and operators.	Evaluate with application exercises, chapter tests, unit tests, book programs, and teacher designed projects.	
3.7.10.D	Utilize computer software to solve specific problems	-Create a JavaScript function.		
		-Work with arrays and conditional statements.		
		-Utilize program loops.		

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Course Name:	Web Page Design
Content:	Design and layout for publishable Web pages
Key Learning(s):	Multimedia can enhance or detract from a Web pages purpose.
Essential Question(s)	What are the advantages and disadvantages to using multimedia in a Web page?
Vocabulary	Bandwidth, WAV, streaming media, MIDI, embedded object, plug-ins, AVI, MPEG, applet, applet window, executable file, parameter.
Grade Level	10-12

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.7.4.C	Identify basic computer operations and concepts.	-Work with external and embedded multimedia files.	Evaluate review questions.	Student text and workbook: <i>Introduction to Computer Science Using C++</i> , Third Edition © 2002, Course Technology, Thomson Learning Teacher-prepared programs Audiovisual Media
3.7.7.C	Explain and demonstrate basic computer operations and concepts.	-Discuss the principles of sound and video clips.	Evaluate reinforcement applications.	
3.7.4.D	Use basic computer software.	-Work with the <embed> tag. -Provide tags for browsers that do not support <embed>.	Award points for successful completion of exercises.	
3.7.7.D	Apply computer software to solve problems.	-Create a background sound with Internet Explorer.	Evaluate with application exercises, chapter tests, unit tests, book programs, and teacher designed projects.	
3.7.10.D	Utilize computer software to solve specific problems	-Use the <applet> tag to add a Java applet to a page. -Create a scrolling marquee with the <marquee> tag.		

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Course Name:	Web Page Design
Content:	Design and layout for publishable Web pages
Key Learning(s):	PhotoShop is one of the leading graphic software tools for editing images.
Essential Question(s)	What are some of the PhotoShop tools for editing photographs?
Vocabulary	Palettes, toolbox, context sensitive.
Grade Level	10-12

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.7.4.C	Identify basic computer operations and concepts.	-Understand and use the PhotoShop tools.	Evaluate review questions.	Student text and workbook: <i>Introduction to Computer Science Using C++</i> , Third Edition © 2002, Course Technology, Thomson Learning Teacher-prepared programs Audiovisual Media
3.7.7.C	Explain and demonstrate basic computer operations and concepts.	-Use options for each tool.	Evaluate reinforcement applications.	
3.7.4.D	Use basic computer software.	-Create images using layers.	Award points for successful completion of exercises.	
3.7.7.D	Apply computer software to solve problems.	-Open and use the various work area palettes.	Evaluate with application exercises, chapter tests, unit tests, book programs, and teacher designed projects.	
3.7.10.D	Utilize computer software to solve specific problems			

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Course Name:	Web Page Design
Content:	Design and layout for publishable Web pages
Key Learning(s):	PhotoShop tools can also be used to create unique graphic displays and animations.
Essential Question(s)	How can you create a simple animation using PhotoShop and Image Ready?
Vocabulary	Frames, hidden layers, tween.
Grade Level	10-12

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.7.4.C	Identify basic computer operations and concepts.	-Use layers to apply layer effects and filters.	Evaluate review questions.	Student text and workbook: <i>Introduction to Computer Science Using C++</i> , Third Edition © 2002, Course Technology, Thomson Learning Teacher-prepared programs Audiovisual Media
3.7.7.C	Explain and demonstrate basic computer operations and concepts.	-Use painting tools and blending modes to create shading effects.	Evaluate reinforcement applications.	
3.7.4.D	Use basic computer software.	-Use tools to select certain areas of a picture.	Award points for successful completion of exercises.	
3.7.7.D	Apply computer software to solve problems.	-Create and apply gradients, patterns, and color overlays.	Evaluate with application exercises, chapter tests, unit tests, book programs, and teacher designed projects.	
3.7.10.D	Utilize computer software to solve specific problems	-Save images for Web use. -Create animations utilizing multilayered images from PhotoShop transported into Image Ready.		

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Course Name:	Web Page Design
Content:	Design and layout for publishable Web pages
Key Learning(s):	Dream Weaver can add even more creativity and function to a Website.
Essential Question(s)	How can pointers be used to hold memory addresses for data in a program?
Vocabulary	Local root folder, remote information, home page, page properties, Flash.
Grade Level	10-12

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.7.4.C	Identify basic computer operations and concepts.	-Create a root folder and default image folder.	Evaluate review questions.	Student text and workbook: <i>Introduction to Computer Science Using C++</i> , Third Edition © 2002, Course Technology, Thomson Learning Teacher-prepared programs Audiovisual Media
3.7.7.C	Explain and demonstrate basic computer operations and concepts.	-Define local and remote information.	Evaluate reinforcement applications.	
3.7.4.D	Use basic computer software.	-Create a flowchart/layout sketch for Web site.	Award points for successful completion of exercises.	
3.7.7.D	Apply computer software to solve problems.	-Work with tables and design elements.	Evaluate with application exercises, chapter tests, unit tests, book programs, and teacher designed projects.	
3.7.10.D	Utilize computer software to solve specific problems	-Create hyperlinks and insert special media.		
		-Create an animation in Flash.		
		-Upload/download files to the Web.		