## Guthrie High School Business Department Web Page Design / Course Number: 2555 (One Semester) Grade Level: 10, 11, 12 Prerequisite: Computer Applications I & II with a grade of "C" or better

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**Course Description:** This class is designed to provide students with a basic understanding of HTML and web authoring software.

Week	Content – PASS Standard(s) Instructional Technology Advanced Level prior to completion of Grade 12	PASS Skill(s	Course Objectives	Assessments	Resources & Inventions
Week 1	Standard 1: The student will demonstrate knowledge of basic operations and concepts.	2.1, 2.2, 2.3, 2.4	<ul> <li>Describe the Internet and its associated key terms</li> </ul>		Shelly Cashman Woods HTML Complete Concepts and Techniques, Third Edition Project 1 Introduction to HTML
	Standard 2: The student will demonstrate knowledge of social, ethical, and human issues, discuss basic issues related to responsible use of technology and information and describe personal consequences of inappropriate use.	3.1, 3.2 4.1, 4.2, 4.3, 4.4	<ul> <li>Describe the World Wide Web and its associated key terms</li> <li>Identify the types and purposes of Web sites</li> </ul>		
	Standard 3: The student will demonstrate knowledge of technology productivity tool.	5.1, 5.2, 5.3, 5.4,	<ul> <li>Identify the types and purposes of Web sites</li> <li>Discuss Web browsers and identify their purpose</li> </ul>		
	Standard 4: The student will demonstrate knowledge of technology communications tools.	5.5 6.1, 6.2,	<ul> <li>Define Hypertext Markup Language (HTML) and the standards used for Web development</li> </ul>		
	6.3 Standard 5: The student will demonstrate knowledge of technology research tools.	•	<ul> <li>Define Dynamic Hypertext Markup Language (DHTML) and describe its relationship to HTML</li> </ul>		
	Standard 6: The student will demonstrate knowledge of technology problem-solving and decision-making tools.		<ul> <li>Define Extensible Hypertext Markup Language (XHTML) and describe its relationship to HTML</li> </ul>		
			• Describe tools used to create HTML documents		
			• Discuss the five phases of the Web development life cycle		
			• Describe Web site structures and the purposes of each structure		
			• Describe the importance of testing throughout the Web development life cycle		

	Standard 1: The student will demonstrate knowledge of basic operations and concepts.	2.1, 2.2, 2.3, 2.4	•	Identify elements of a Web page		Shelly Cashman Woods HTML Complete Concepts and Techniques, Third Edition
Standa	rd 2: The student will demonstrate knowledge of	3.1, 3.2	•	Start Notepad and describe the Notepad window		Project 2 Creating and Editing a Web Page
social,	ethical, and human issues, discuss basic issues related		•	Enable word wrap in Notepad		
•	onsible use of technology and information and be personal consequences of inappropriate use.	4.1, 4.2, 4.3, 4.4	•	Enter the HTML tags		
Standa	Standard 3: The student will demonstrate knowledge of technology productivity tool.	5.1, 5.2, 5.3, 5.4, 5.5	.1, 5.2, .3, 5.4,	Enter headings and a paragraph of text		
technol				Create an unordered, ordered, or definition list		
	Standard 4: The student will demonstrate knowledge of technology communications too	6.1, 6.2, 6.3	•	Save an HTML file		
techno			•	Use a browser to view a Web page		
	rd 5: The student will demonstrate knowledge of logy research tools.		•	Activate Notepad		
	Standard 6: The student will demonstrate knowledge of technology problem-solving and decision-making tools.		•	Identify Web page image types and attributes		
			•	Add an image, change the background color of a Web page, center a heading, and add a horizontal rule		
			•	View the HTML source code in a browser		
			•	Print a Web page and an HTML file		
			•	Quit Notepad and a browser		

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Weeks basic operati Standard 2: social, ethica to responsible describe per Standard 3: technology p Standard 4: technology c Standard 5: technology r Standard 5: technology r Standard 6:	<ol> <li>The student will demonstrate knowledge of ations and concepts.</li> <li>The student will demonstrate knowledge of ical, and human issues, discuss basic issues related ible use of technology and information and ersonal consequences of inappropriate use.</li> <li>The student will demonstrate knowledge of y productivity tool.</li> <li>The student will demonstrate knowledge of y communications too</li> <li>The student will demonstrate knowledge of y research tools.</li> <li>The student will demonstrate knowledge of y problem-solving and decision-making tools.</li> </ol>	2.1, 2.2, 2.3, 2.4 3.1, 3.2 4.1, 4.2, 4.3, 4.4 5.1, 5.2, 5.3, 5.4, 5.5 6.1, 6.2, 6.3		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 bullet type used in unordered lists Add a background image Add a text link to a Web page in the same Web site Add an e-mail link View the 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 Web site Add inks to targets within a Web page Copy and paste HTML code Add an image link to a Web page in the same Web site		Shelly Cashman Woods HTML Complete Concepts and Techniques, Third Edition Project 3 Creating Web Pages with Links, Images, and Formatted Text
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Veek 5, 2 Veeks	Standard 1: The student will demonstrate knowledge of basic operations and concepts.	2.1, 2.2, 2.3, 2.4	۲	Define table elements	Shelly Cashman Woods HTML Complete Concepts and Techniques, Third Edition
Standard 2: The student will de social, ethical, and human issue related to responsible use of tec and describe personal conseque	Standard 2: The student will demonstrate knowledge of social, ethical, and human issues, discuss basic issues related to responsible use of technology and information	tion e use. 4.1, 4.2, 4.3, 4.4 • • • • • • • • • • • • • • • • • •	•	Describe the steps used to plan, design, and code a table Create a borderless table to organize images	Project 4 Creating Tables in a Web Site
	and describe personal consequences of inappropriate use. Standard 3: The student will demonstrate knowledge of		•	Create a vertical menu bar with text links	
1	technology productivity tool. 5.3, 5		Create a borderless table to organize text Create a horizontal menu bar with text links		
technology communications too Standard 5: The student will den technology research tools. Standard 6: The student will den	technology communications too		•	Create a table with borders Change the horizontal alignment of text	
	technology research tools.		•	Add background color to rows and cells	
	technology problem-solving and decision-making tools.			Alter the spacing between and within cells using the cellspacing and cellpadding attributes	
			•	Insert a caption below a table Use the row span and cols pan attributes	

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Week 7, 2	Standard 1: The student will demonstrate knowledge of	2.1, 2.2,			Shelly Cashman Woods HTML Complete Concepts
Weeks	basic operations and concepts.	2.3, 2.4	•	Define terms related to image mapping	and Techniques, Third Edition
WEEKS	Dasic operations and concepts.	2.3, 2.4		Define terrib felated to mage mapping	Project 5 Creating an Image Map
	Standard 2: The student will demonstrate knowledge of	3.1, 3.2	•	List the differences between server-side and	riojeet 5 cleating all mage map
	social, ethical, and human issues, discuss basic issues	5.1, 5.2			
	related to responsible use of technology and information	4.1, 4.2,		client-side image maps	
	and describe personal consequences of inappropriate use.	4.1, 4.2,		chem side mage maps	
	and describe personal consequences of mappropriate use.	4.3, 4.4	•	Name the two components of an image map	
	Standard 3: The student will demonstrate knowledge of	5.1, 5.2,	1	лано на спо сопренена стан наде нар	
		5.3, 5.4,	ļ	and describe the steps to implement an image	
	technology productivity tool.	5.5, 5.4,	i		
	Charles of the student will demonstrate branded as of	5.5	1	map	
	Standard 4: The student will demonstrate knowledge of			<b>P</b>	
	technology communications too	6.1, 6.2,	•	Distinguish between appropriate and	
	Chan do ad 5. The student will demonstrate brouded a of	0.1, 0.2,			
	Standard 5: The student will demonstrate knowledge of	6.3		inappropriate images for mapping	
	technology research tools.	0.5			
	Or 1 1 C Min of the state in the demonstrate become deduce of			Sketch hotspots on an image	
	Standard 6: The student will demonstrate knowledge of				
	technology problem-solving and decision-making tools.		•	Describe how the x- and y-coordinates relate to	
				·	
				vertical and horizontal alignment	
				-	
			•	Open an image in Paint and use Paint to map	
				the coordinates of an image	
			•	Create the home page and additional Web	
				pages	
			•	Create a table, insert an image into a table, and	
1				use the usemap attribute to define a map	
1		1	•	Add text to a table cell and create a horizontal	
				menu bar with text links	
			•	The design of the state of the design of the	
				Use the <map> </map> tags to start and end a	
				man	
1		1		map	
1		1	•	Use the <area/> tag to indicate the shape,	
			1	Use the salear tag to mulcate the shape,	
				coordinates, and URL for a mapped area	
				coordinates, and orce for a mapped area	
			•	Change link colors	
			1	Change hink colors	

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Week 9	Standard 1: The student will demonstrate knowledge of	2.1, 2.2,		<u> </u>		Shelly Cashman Woods HTML Complete Concepts
in cor y	basic operations and concepts.	2.3, 2.4	•	Define terms related to frames		and Techniques, Third Edition Project 6 Using Frames in a Web Site
	Standard 2: The student will demonstrate knowledge of social, ethical, and human issues, discuss basic issues	3.1, 3.2	•	Describe the steps used to design a frame		
	related to responsible use of technology and information and describe personal consequences of inappropriate use. Standard 3: The student will demonstrate knowledge of technology productivity tool.	4.1, 4.2, 4.3, 4.4		structure		
		1	•	Plan and lay out a frameset		
		5.1, 5.2, 5.3, 5.4,	•	Create a frame definition file that defines three		
	Standard 4: The student will demonstrate knowledge of	5.5		frames		
	technology communications too	6.1, 6.2,	•	Use the <frameset> tag</frameset>		
	Standard 5: The student will demonstrate knowledge of technology research tools.	6.3	•	Use the <frame/> tag		
	Standard 6: The student will demonstrate knowledge of		•	Change frame scrolling options		
	technology problem-solving and decision-making tools.		•	Name a frame content target		
				Identify Web pages to display at startup		
			•	Set frame rows		
			•	Set frame columns		
			•	Create a header page with text		
			•	Create a navigation menu page with text links		
			•	Create a home page		
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Week 10	•	Standard 1: The student will demonstrate knowledge of basic operations and concepts.	2.1, 2.2, 2.3, 2.4	٠	Discuss the basic components of the World Wide Web		Shelly Cashman Woods FrontPage 2003 Complete Concepts and Techniques, Coursecard Edition Project 1 Creating a FrontPage Web Site Using a
			3.1, 3.2	٠	Identify common elements of a Web page		Template
	•	Standard 2: The student will demonstrate knowledge of social, ethical, and human issues, discuss basic issues	4.1, 4.2, 4.3, 4.4	٠	Define and describe a FrontPage Web site		
		related to responsible use of technology and information and describe personal consequences of		٠	Start and quit FrontPage		
		inappropriate use.	5.1, 5.2, 5.3, 5.4,	•	Describe FrontPage window elements		
		5.5	٠	Create a FrontPage Web site using a template			
		<ul> <li>Standard 3: The student will demonstrate knowledge of technology productivity tool.</li> <li>Standard 4: The student will demonstrate knowledge of technology communications too</li> </ul>	6.1, 6.2, 6.3	•	Apply a theme to a FrontPage Web site		
				•	Add and modify text elements on a Web page		
	•			•	Save and preview a Web page		
				•	Delete a Web page from a FrontPage Web site	b page from a FrontPage Web site	
	•	Standard 5: The student will demonstrate knowledge of technology research tools.		•	Add and modify hyperlinks on a Web page		
		of technology research tools.		•	Print a Web page		
	•	<ul> <li>Standard 6: The student will demonstrate knowledge of technology problem-solving and decision-making tools.</li> </ul>		•	Publish and test a FrontPage Web site		
				•	Use the FrontPage Help system		

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Week 11	• Standard	2.1, 2.2, 2.3, 2.4	•	List Web page design criteria		Shelly Cashman Woods FrontPage 2003 Comple Concepts and Techniques, Coursecard Edition	
	of basic op	<ul> <li>of basic operations and concepts.</li> <li>Standard 2: The student will demonstrate knowledge of social, ethical, and human issues, discuss basic issues</li> </ul>	3.1, 3.2	•	Add a new Web page to an existing FrontPage Web site and rename the Web page		Project 2 Adding a New Web Page to a Web Site
			4.1, 4.2, 4.3, 4.4	•	Change the title and label of a Web page		
	informatio	responsible use of technology and on and describe personal consequences of	5.1, 5.2,	•	Change the theme and set the background color for a single Web page		
	inappropr	inappropriate use.	5.3, 5.4, 5.5	•	Insert a table on a Web page		
		3: The student will demonstrate knowledge ogy productivity tool.	6.1, 6.2, 6.3	•	Merge cells in a table and change table properties		
	Other band 4. The student will demonstrate impulsion	0.3	•	Undo and redo actions in FrontPage			
		Standard 4: The student will demonstrate knowledge of technology communications too		•	Insert a clip art image in a Web page and replace an image		
	• Standard	• Standard 5: The student will demonstrate knowledge of technology research tools.		•	Copy and paste items on a Web page		• •
	of technol			•	Add a heading and normal text to a Web page		
	Standard	<ul> <li>Standard 6: The student will demonstrate knowledge of technology problem-solving and decision-making tools.</li> </ul>		•	Insert a horizontal rule		
				•	Add a link bar and a Photo Gallery component to a Web page		
			•	Print preview a Web page			
				•	Save a Web page with embedded images		
			•	Publish changes to an existing FrontPage Web site			

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Week 12	Standard 1: The student will demonstrate knowledge of basic operations and concepts.	2.1, 2.2, 2.3, 2.4	•	Discuss the types of images used on the Web	Shelly Cashman Woods FrontPage 2003 Complete Concepts and Techniques, Coursecard Edition Project 3 Customizing and Managing Web Pages and
	Standard 2: The student will demonstrate knowledge of social, ethical, and human issues, discuss basic issues	3.1, 3.2	٠	Create and apply a custom theme	Images
	related to responsible use of technology and information and describe personal consequences of inappropriate	4.1, 4.2, 4.3, 4.4	•	Expand an existing table	
	use.	-	٠	Add a hit counter	
	Standard 3: The student will demonstrate knowledge of technology productivity tool.	5.1, 5.2, 5.3, 5.4, 5.5	•	Add a shared border and change the navigation structure of a Web site	
	Standard 4: The student will demonstrate knowledge of technology communications too	6.1, 6.2, 6.3	•.1, 6.2, 6.3	Copy and paste from a Word document	
				Insert bookmarks into a Web page	
	Standard 5: The student will demonstrate knowledge of technology research tools. Standard 6: The student will demonstrate knowledge of technology problem-solving and decision-making tools.		•	Display the Pictures toolbar	
			•	Modify image properties	
			•	Insert an AutoShapes drawing object in FrontPage	
			•	Create an image map hotspot	
			•	Use a graphical image as a hyperlink	
			•	Use FrontPage to create and view reports	
			•	Verify the hyperlinks in a FrontPage Web site	
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Week 13, 2 Weeks	<ul> <li>Standard 1: The student will demonstrate knowledge of basic operations and concepts.</li> <li>Standard 2: The student will demonstrate knowledge of social, ethical, and human issues, discuss basic issues related to responsible use of technology and information and describe personal consequences of inappropriate use.</li> <li>Standard 3: The student will demonstrate knowledge of technology productivity tool.</li> <li>Standard 4: The student will demonstrate knowledge of technology communications too</li> <li>Standard 5: The student will demonstrate knowledge of technology research tools.</li> <li>Standard 6: The student will demonstrate knowledge of technology problem-solving and decision-making tools.</li> </ul>	2.1, 2.2, 2.3, 2.4 3.1, 3.2 4.1, 4.2, 4.3, 4.4 5.1, 5.2, 5.3, 5.4, 5.5 6.1, 6.2, 6.3		Describe forms and types of form fields Describe available form handlers Describe the methods and format used to submit form data Manage files in Folders view Modify a page title in Folders view Copy and paste a page banner and a link bar Hide the Folder List pane Insert a form in a Web page and a table Insert a table, text box, text area, and check box in a form Insert a line drawing AutoShape in a table Create a nested table Insert a drop-down box, group box, and option button in a form Modify form button properties Choose a form handler Modify HTML code directly in FrontPage		Shelly Cashman Woods FrontPage 2003 Complete Concepts and Techniques, Coursecard Edition Project 4 Creating and Using Interactive Forms on the Web
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Week 15, 2 Weeks	Standard 1: The student will demonstrate knowledge of basic operations and concepts.Standard 2: The student will demonstrate knowledge of social, ethical, and human issues, discuss basic issues related to responsible use of technology and information and describe 	2.1, 2.2, 2.3, 2.4 3.1, 3.2 4.1, 4.2, 4.3, 4.4 5.1, 5.2, 5.3, 5.4, 5.5 6.1, 6.2, 6.3	<ul> <li>Describe frames pages and explain how they work</li> <li>Use the Database Results Wizard</li> <li>Use a custom SQL query</li> <li>Use a frames page template</li> <li>Save a frames page</li> <li>Set an existing Web page as the initial page in a frame</li> <li>Modify the size of a frame</li> <li>Create a new Web page for the initial page in a frame</li> <li>Modify the properties of a frame</li> <li>Modify the properties of a frame</li> <li>Modify the properties of a frame</li> <li>Create hyperlinks to pages in a frame</li> <li>Create a hyperlink to a whole page</li> <li>Display the No Frames view</li> </ul>	Shelly Cashman Woods FrontPage 2003 Complete Concepts and Techniques, Coursecard Edition Project 5 Using Frames to Display Database Results in Web Pages
			<ul><li>Display the No Frames view</li><li>Print framed Web pages</li></ul>	

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Week 17, 2 Weeks	Standard 1: The student will demonstrate knowledge of basic operations and concepts.	2.1, 2.2, 2.3, 2.4	•	Create a new folder in an existing Web site Move files and folders into another folder	Shelly Cashman Woods FrontPage 2003 Complete Concepts and Techniques, Coursecard Edition
	Standard 2: The student will demonstrate knowledge of social, ethical, and human issues, discuss basic issues related to responsible use of technology and information and describe personal consequences of inappropriate use.	3.1, 3.2 4.1, 4.2, 4.3, 4.4	•	Convert a folder to a subsite Open a subsite for editing	Project 6 Using Subsites, the Database Interface Wizard, and Source Control
	Standard 3: The student will demonstrate knowledge of technology productivity tool. Standard 4: The student will demonstrate knowledge of technology communications too Standard 5: The student will demonstrate knowledge of technology research tools. Standard 6: The student will demonstrate knowledge of technology problem-solving and decision-making tools.	5.1, 5.2, 5.3, 5.4, 5.5 6.1, 6.2, 6.3	• • • •	Set an existing page as the home page for a Web site Use the default page as a hyperlink target Use the Database Interface Wizard to create Database Editor pages Apply a theme to a subsite Publish a Web site and all subsites Enable source control for a Web site and subsite Check files in and out using source control	
				View the Checkout Status report	

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