

**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

**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	<p><b>Standard 1: The student will demonstrate knowledge of basic operations and concepts.</b></p> <p><b>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.</b></p> <p><b>Standard 3: The student will demonstrate knowledge of technology productivity tool.</b></p> <p><b>Standard 4: The student will demonstrate knowledge of technology communications tools.</b></p> <p><b>Standard 5: The student will demonstrate knowledge of technology research tools.</b></p> <p><b>Standard 6: The student will demonstrate knowledge of technology problem-solving and decision-making tools.</b></p>	<p>2.1, 2.2, 2.3, 2.4</p> <p>3.1, 3.2</p> <p>4.1, 4.2, 4.3, 4.4</p> <p>5.1, 5.2, 5.3, 5.4, 5.5</p> <p>6.1, 6.2, 6.3</p>	<ul style="list-style-type: none"> <li>● Describe the Internet and its associated key terms</li> <li>● Describe the World Wide Web and its associated key terms</li> <li>● Identify the types and purposes of Web sites</li> <li>● Discuss Web browsers and identify their purpose</li> <li>● Define Hypertext Markup Language (HTML) and the standards used for Web development</li> <li>● Define Dynamic Hypertext Markup Language (DHTML) and describe its relationship to HTML</li> <li>● Define Extensible Hypertext Markup Language (XHTML) and describe its relationship to HTML</li> <li>● Describe tools used to create HTML documents</li> <li>● Discuss the five phases of the Web development life cycle</li> <li>● Describe Web site structures and the purposes of each structure</li> <li>● Describe the importance of testing throughout the Web development life cycle</li> </ul>		<p><i>Shelly Cashman Woods HTML Complete Concepts and Techniques, Third Edition</i>            Project 1 Introduction to HTML</p>

<p>Week 2</p>	<p><b>Standard 1: The student will demonstrate knowledge of basic operations and concepts.</b></p> <p><b>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.</b></p> <p><b>Standard 3: The student will demonstrate knowledge of technology productivity tool.</b></p> <p><b>Standard 4: The student will demonstrate knowledge of technology communications too</b></p> <p><b>Standard 5: The student will demonstrate knowledge of technology research tools.</b></p> <p><b>Standard 6: The student will demonstrate knowledge of technology problem-solving and decision-making tools.</b></p>	<p>2.1, 2.2, 2.3, 2.4</p> <p>3.1, 3.2</p> <p>4.1, 4.2, 4.3, 4.4</p> <p>5.1, 5.2, 5.3, 5.4, 5.5</p> <p>6.1, 6.2, 6.3</p>	<ul style="list-style-type: none"> <li>● Identify elements of a Web page</li> <li>● Start Notepad and describe the Notepad window</li> <li>● Enable word wrap in Notepad</li> <li>● Enter the HTML tags</li> <li>● Enter headings and a paragraph of text</li> <li>● Create an unordered, ordered, or definition list</li> <li>● Save an HTML file</li> <li>● Use a browser to view a Web page</li> <li>● Activate Notepad</li> <li>● Identify Web page image types and attributes</li> <li>● Add an image, change the background color of a Web page, center a heading, and add a horizontal rule</li> <li>● View the HTML source code in a browser</li> <li>● Print a Web page and an HTML file</li> <li>● Quit Notepad and a browser</li> </ul>	<p><i>Shelly Cashman Woods HTML Complete Concepts and Techniques, Third Edition</i>  Project 2 Creating and Editing a Web Page</p>
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<p>Week 3, 2 Weeks</p>	<p><b>Standard 1: The student will demonstrate knowledge of basic operations and concepts.</b></p> <p><b>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.</b></p> <p><b>Standard 3: The student will demonstrate knowledge of technology productivity tool.</b></p> <p><b>Standard 4: The student will demonstrate knowledge of technology communications too</b></p> <p><b>Standard 5: The student will demonstrate knowledge of technology research tools.</b></p> <p><b>Standard 6: The student will demonstrate knowledge of technology problem-solving and decision-making tools.</b></p>	<p>2.1, 2.2, 2.3, 2.4</p> <p>3.1, 3.2</p> <p>4.1, 4.2, 4.3, 4.4</p> <p>5.1, 5.2, 5.3, 5.4, 5.5</p> <p>6.1, 6.2, 6.3</p>	<ul style="list-style-type: none"> <li>● Describe linking terms and definitions</li> <li>● Create a home page and enhance a Web page using images</li> <li>● Align and add bold, italics, and color to text</li> <li>● Change bullet type used in unordered lists</li> <li>● Add a background image</li> <li>● Add a text link to a Web page in the same Web site</li> <li>● Add an e-mail link</li> <li>● View the HTML file and test the links</li> <li>● Open an HTML file</li> <li>● Add an image with wrapped text</li> <li>● Add a text link to a Web page on another Web site</li> <li>● Add links to targets within a Web page</li> <li>● Copy and paste HTML code</li> <li>● Add an image link to a Web page in the same Web site</li> </ul>		<p><i>Shelly Cashman Woods HTML Complete Concepts and Techniques, Third Edition</i>  Project 3 Creating Web Pages with Links, Images, and Formatted Text</p>
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<p>Week 5, 2 Weeks</p>	<p><b>Standard 1: The student will demonstrate knowledge of basic operations and concepts.</b></p> <p><b>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.</b></p> <p><b>Standard 3: The student will demonstrate knowledge of technology productivity tool.</b></p> <p><b>Standard 4: The student will demonstrate knowledge of technology communications too</b></p> <p><b>Standard 5: The student will demonstrate knowledge of technology research tools.</b></p> <p><b>Standard 6: The student will demonstrate knowledge of technology problem-solving and decision-making tools.</b></p>	<p>2.1, 2.2, 2.3, 2.4</p> <p>3.1, 3.2</p> <p>4.1, 4.2, 4.3, 4.4</p> <p>5.1, 5.2, 5.3, 5.4, 5.5</p> <p>6.1, 6.2, 6.3</p>	<ul style="list-style-type: none"> <li>● Define table elements</li> <li>● Describe the steps used to plan, design, and code a table</li> <li>● Create a borderless table to organize images</li> <li>● Create a vertical menu bar with text links</li> <li>● Create a borderless table to organize text</li> <li>● Create a horizontal menu bar with text links</li> <li>● Create a table with borders</li> <li>● Change the horizontal alignment of text</li> <li>● Add background color to rows and cells</li> <li>● Alter the spacing between and within cells using the cellspacing and cellpadding attributes</li> <li>● Insert a caption below a table</li> <li>● Use the row span and cols pan attributes</li> </ul>		<p><i>Shelly Cashman Woods HTML Complete Concepts and Techniques, Third Edition</i> Project 4 Creating Tables in a Web Site</p>
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<p>Week 7, 2 Weeks</p>	<p><b>Standard 1: The student will demonstrate knowledge of basic operations and concepts.</b></p> <p><b>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.</b></p> <p><b>Standard 3: The student will demonstrate knowledge of technology productivity tool.</b></p> <p><b>Standard 4: The student will demonstrate knowledge of technology communications too</b></p> <p><b>Standard 5: The student will demonstrate knowledge of technology research tools.</b></p> <p><b>Standard 6: The student will demonstrate knowledge of technology problem-solving and decision-making tools.</b></p>	<p>2.1, 2.2, 2.3, 2.4</p> <p>3.1, 3.2</p> <p>4.1, 4.2, 4.3, 4.4</p> <p>5.1, 5.2, 5.3, 5.4, 5.5</p> <p>6.1, 6.2, 6.3</p>	<ul style="list-style-type: none"> <li>● Define terms related to image mapping</li> <li>● List the differences between server-side and client-side image maps</li> <li>● Name the two components of an image map and describe the steps to implement an image map</li> <li>● Distinguish between appropriate and inappropriate images for mapping</li> <li>● Sketch hotspots on an image</li> <li>● Describe how the x- and y-coordinates relate to vertical and horizontal alignment</li> <li>● Open an image in Paint and use Paint to map the coordinates of an image</li> <li>● Create the home page and additional Web pages</li> <li>● Create a table, insert an image into a table, and use the usemap attribute to define a map</li> <li>● Add text to a table cell and create a horizontal menu bar with text links</li> <li>● Use the &lt;map&gt; &lt;/map&gt; tags to start and end a map</li> <li>● Use the &lt;area&gt; tag to indicate the shape, coordinates, and URL for a mapped area</li> <li>● Change link colors</li> </ul>	<p><i>Shelly Cashman Woods HTML Complete Concepts and Techniques, Third Edition</i> Project 5 Creating an Image Map</p>
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<p>Week 9</p>	<p><b>Standard 1: The student will demonstrate knowledge of basic operations and concepts.</b></p> <p><b>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.</b></p> <p><b>Standard 3: The student will demonstrate knowledge of technology productivity tool.</b></p> <p><b>Standard 4: The student will demonstrate knowledge of technology communications too</b></p> <p><b>Standard 5: The student will demonstrate knowledge of technology research tools.</b></p> <p><b>Standard 6: The student will demonstrate knowledge of technology problem-solving and decision-making tools.</b></p>	<p>2.1, 2.2, 2.3, 2.4</p> <p>3.1, 3.2</p> <p>4.1, 4.2, 4.3, 4.4</p> <p>5.1, 5.2, 5.3, 5.4, 5.5</p> <p>6.1, 6.2,</p> <p>6.3</p>	<ul style="list-style-type: none"> <li>● Define terms related to frames</li> <li>● Describe the steps used to design a frame structure</li> <li>● Plan and lay out a frameset</li> <li>● Create a frame definition file that defines three frames</li> <li>● Use the &lt;frameset&gt; tag</li> <li>● Use the &lt;frame&gt; tag</li> <li>● Change frame scrolling options</li> <li>● Name a frame content target</li> <li>● Identify Web pages to display at startup</li> <li>● Set frame rows</li> <li>● Set frame columns</li> <li>● Create a header page with text</li> <li>● Create a navigation menu page with text links</li> <li>● Create a home page</li> </ul>	<p><i>Shelly Cashman Woods HTML Complete Concepts and Techniques, Third Edition</i> Project 6 Using Frames in a Web Site</p>
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<p>Week 10</p>	<ul style="list-style-type: none"> <li>● <b>Standard 1: The student will demonstrate knowledge of basic operations and concepts.</b></li> <li>● <b>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.</b></li> <li>● <b>Standard 3: The student will demonstrate knowledge of technology productivity tool.</b></li> <li>● <b>Standard 4: The student will demonstrate knowledge of technology communications too</b></li> <li>● <b>Standard 5: The student will demonstrate knowledge of technology research tools.</b></li> <li>● <b>Standard 6: The student will demonstrate knowledge of technology problem-solving and decision-making tools.</b></li> </ul>	<p>2.1, 2.2, 2.3, 2.4</p> <p>3.1, 3.2</p> <p>4.1, 4.2, 4.3, 4.4</p> <p>5.1, 5.2, 5.3, 5.4, 5.5</p> <p>6.1, 6.2, 6.3</p>	<ul style="list-style-type: none"> <li>● Discuss the basic components of the World Wide Web</li> <li>● Identify common elements of a Web page</li> <li>● Define and describe a FrontPage Web site</li> <li>● Start and quit FrontPage</li> <li>● Describe FrontPage window elements</li> <li>● Create a FrontPage Web site using a template</li> <li>● Apply a theme to a FrontPage Web site</li> <li>● Add and modify text elements on a Web page</li> <li>● Save and preview a Web page</li> <li>● Delete a Web page from a FrontPage Web site</li> <li>● Add and modify hyperlinks on a Web page</li> <li>● Print a Web page</li> <li>● Publish and test a FrontPage Web site</li> <li>● Use the FrontPage Help system</li> </ul>		<p><i>Shelly Cashman Woods FrontPage 2003 Complete Concepts and Techniques, Coursecard Edition</i>  <b>Project 1 Creating a FrontPage Web Site Using a Template</b></p>
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Week 11	<ul style="list-style-type: none"> <li>● <b>Standard 1: The student will demonstrate knowledge of basic operations and concepts.</b></li> <li>● <b>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.</b></li> <li>● <b>Standard 3: The student will demonstrate knowledge of technology productivity tool.</b></li> <li>● <b>Standard 4: The student will demonstrate knowledge of technology communications too</b></li> <li>● <b>Standard 5: The student will demonstrate knowledge of technology research tools.</b></li> <li>● <b>Standard 6: The student will demonstrate knowledge of technology problem-solving and decision-making tools.</b></li> </ul>	<p>2.1, 2.2, 2.3, 2.4</p> <p>3.1, 3.2</p> <p>4.1, 4.2, 4.3, 4.4</p> <p>5.1, 5.2, 5.3, 5.4, 5.5</p> <p>6.1, 6.2, 6.3</p>	<ul style="list-style-type: none"> <li>● List Web page design criteria</li> <li>● Add a new Web page to an existing FrontPage Web site and rename the Web page</li> <li>● Change the title and label of a Web page</li> <li>● Change the theme and set the background color for a single Web page</li> <li>● Insert a table on a Web page</li> <li>● Merge cells in a table and change table properties</li> <li>● Undo and redo actions in FrontPage</li> <li>● Insert a clip art image in a Web page and replace an image</li> <li>● Copy and paste items on a Web page</li> <li>● Add a heading and normal text to a Web page</li> <li>● Insert a horizontal rule</li> <li>● Add a link bar and a Photo Gallery component to a Web page</li> <li>● Print preview a Web page</li> <li>● Save a Web page with embedded images</li> <li>● Publish changes to an existing FrontPage Web site</li> </ul>	<p><i>Shelly Cashman Woods FrontPage 2003 Complete Concepts and Techniques, Coursecard Edition</i>  Project 2 Adding a New Web Page to a Web Site</p>
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<p>Week 12</p>	<p><b>Standard 1: The student will demonstrate knowledge of basic operations and concepts.</b></p> <p><b>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.</b></p> <p><b>Standard 3: The student will demonstrate knowledge of technology productivity tool.</b></p> <p><b>Standard 4: The student will demonstrate knowledge of technology communications too</b></p> <p><b>Standard 5: The student will demonstrate knowledge of technology research tools.</b></p> <p><b>Standard 6: The student will demonstrate knowledge of technology problem-solving and decision-making tools.</b></p>	<p>2.1, 2.2, 2.3, 2.4</p> <p>3.1, 3.2</p> <p>4.1, 4.2, 4.3, 4.4</p> <p>5.1, 5.2, 5.3, 5.4, 5.5</p> <p>6.1, 6.2, 6.3</p>	<ul style="list-style-type: none"> <li>● Discuss the types of images used on the Web</li> <li>● Create and apply a custom theme</li> <li>● Expand an existing table</li> <li>● Add a hit counter</li> <li>● Add a shared border and change the navigation structure of a Web site</li> <li>● Copy and paste from a Word document</li> <li>● Insert bookmarks into a Web page</li> <li>● Display the Pictures toolbar</li> <li>● Modify image properties</li> <li>● Insert an AutoShapes drawing object in FrontPage</li> <li>● Create an image map hotspot</li> <li>● Use a graphical image as a hyperlink</li> <li>● Use FrontPage to create and view reports</li> <li>● Verify the hyperlinks in a FrontPage Web site</li> </ul>		<p><i>Shelly Cashman Woods FrontPage 2003 Complete Concepts and Techniques, Coursecard Edition</i>  <b>Project 3 Customizing and Managing Web Pages and Images</b></p>
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<p>Week 13, 2 Weeks</p>	<p><b>Standard 1: The student will demonstrate knowledge of basic operations and concepts.</b></p> <p><b>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.</b></p> <p><b>Standard 3: The student will demonstrate knowledge of technology productivity tool.</b></p> <p><b>Standard 4: The student will demonstrate knowledge of technology communications too</b></p> <p><b>Standard 5: The student will demonstrate knowledge of technology research tools.</b></p> <p><b>Standard 6: The student will demonstrate knowledge of technology problem-solving and decision-making tools.</b></p>	<p>2.1, 2.2, 2.3, 2.4</p> <p>3.1, 3.2</p> <p>4.1, 4.2, 4.3, 4.4</p> <p>5.1, 5.2, 5.3, 5.4, 5.5</p> <p>6.1, 6.2, 6.3</p>	<ul style="list-style-type: none"> <li>● Describe forms and types of form fields</li> <li>● Describe available form handlers</li> <li>● Describe the methods and format used to submit form data</li> <li>● Manage files in Folders view</li> <li>● Modify a page title in Folders view</li> <li>● Copy and paste a page banner and a link bar</li> <li>● Hide the Folder List pane</li> <li>● Insert a form in a Web page and a table</li> <li>● Insert a table, text box, text area, and check box in a form</li> <li>● Insert a line drawing AutoShape in a table</li> <li>● Create a nested table</li> <li>● Insert a drop-down box, group box, and option button in a form</li> <li>● Modify form button properties</li> <li>● Choose a form handler</li> <li>● Modify HTML code directly in FrontPage</li> </ul>	<p><i>Shelly Cashman Woods FrontPage 2003 Complete Concepts and Techniques, Coursecard Edition</i> Project 4 Creating and Using Interactive Forms on the Web</p>
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<p><b>Week 15, 2 Weeks</b></p>	<p><b>Standard 1: The student will demonstrate knowledge of basic operations and concepts.</b></p> <p><b>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.</b></p> <p><b>Standard 3: The student will demonstrate knowledge of technology productivity tool.</b></p> <p><b>Standard 4: The student will demonstrate knowledge of technology communications too</b></p> <p><b>Standard 5: The student will demonstrate knowledge of technology research tools.</b></p> <p><b>Standard 6: The student will demonstrate knowledge of technology problem-solving and decision-making tools.</b></p>	<p>2.1, 2.2, 2.3, 2.4</p> <p>3.1, 3.2</p> <p>4.1, 4.2, 4.3, 4.4</p> <p>5.1, 5.2, 5.3, 5.4, 5.5</p> <p>6.1, 6.2, 6.3</p>	<ul style="list-style-type: none"> <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 frames page</li> <li>● Import files into an existing FrontPage Web site</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> <li>● Print framed Web pages</li> </ul>	<p><i>Shelly Cashman Woods FrontPage 2003 Complete Concepts and Techniques, Coursecard Edition</i>  <b>Project 5 Using Frames to Display Database Results in Web Pages</b></p>
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<p>Week 17, 2 Weeks</p>	<p><b>Standard 1: The student will demonstrate knowledge of basic operations and concepts.</b></p> <p><b>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.</b></p> <p><b>Standard 3: The student will demonstrate knowledge of technology productivity tool.</b></p> <p><b>Standard 4: The student will demonstrate knowledge of technology communications too</b></p> <p><b>Standard 5: The student will demonstrate knowledge of technology research tools.</b></p> <p><b>Standard 6: The student will demonstrate knowledge of technology problem-solving and decision-making tools.</b></p>	<p>2.1, 2.2, 2.3, 2.4</p> <p>3.1, 3.2</p> <p>4.1, 4.2, 4.3, 4.4</p> <p>5.1, 5.2, 5.3, 5.4, 5.5</p> <p>6.1, 6.2, 6.3</p>	<ul style="list-style-type: none"> <li>● Create a new folder in an existing Web site</li> <li>● Move files and folders into another folder</li> <li>● Convert a folder to a subsite</li> <li>● Open a subsite for editing</li> <li>● Set an existing page as the home page for a Web site</li> <li>● Use the default page as a hyperlink target</li> <li>● Use the Database Interface Wizard to create Database Editor pages</li> <li>● Apply a theme to a subsite</li> <li>● Publish a Web site and all subsites</li> <li>● Enable source control for a Web site and subsite</li> <li>● Check files in and out using source control</li> <li>● View the Checkout Status report</li> </ul>	<p><i>Shelly Cashman Woods FrontPage 2003 Complete Concepts and Techniques, Coursecard Edition</i> Project 6 Using Subsites, the Database Interface Wizard, and Source Control</p>
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