

**Department: Business & Information Technology**

**Course Name: Web Page Design**

**Grades level: 9-12**

**Credits: .5**

**Prerequisite: None**

**Resources:**

W3Schools - Online Resource - <https://www.w3schools.com/>

**Course Description:**

This course gives students an opportunity to learn about design principles and technical aspects of designing web pages. Students will develop knowledge and skills in HTML 5 Coding. Daily work will lead to the development of three major projects: Personal Web Page, Community Web Site, and an E-Commerce Site.

**Units/Duration:**

UNIT	DURATION
Intro to the World Wide Web	2 Days
Planning & Designing a Website	1 Week
HTML Basics	2 Weeks
CSS & Style	2 Weeks
Advanced HTML	2 Weeks
Responsive Technology	1 Week

**Enduring Understandings (course level)**

1. Basic design principles including balance, unity, contrast and color theory.
2. Utilizing graphic design software is an important aspect of website development and design.
3. Effective graphic design construction is critical for the user to correctly identify the message of the design.
4. Effective graphic design layout is critical for the user to correctly identify the message of the design.
5. HTML coding is the foundation for all web page editor
6. The knowledge of the HTML structure is essential when problem solving
7. Web design software will give the ability to create web pages for both business and personal use
8. The utilization of enhancements and elements in web development and design contribute to a successful website

**WI Common Career Technical Core Standards**

**Wisconsin Common Career Technical Core Standards Covered**

This course will address the following Wisconsin CTE Standards using the following activities

- Weekly Professionalism Self Reflection and Goal Setting Assignments
  - CD1.b.2.e: Define a goal and describe why it is important to have goals.
  - CD2.a: Apply academic experiences to the world of work, inter-relationships and the community.

- CD4.c.4.h: Model behaviors that demonstrate reliability and dependability.

Unit	E U	Essential Questions	Concepts/Skills	Texts/ Resources	Assessments *Specify as formative (f) and summative(s)	Standards *Identify Standards Used
Unit 1 - Introduction to the World Wide Web (2 Days)	6	<ol style="list-style-type: none"> <li>1. How does the internet work?</li> <li>2. What are basic terms associated with the internet?</li> <li>3. What is a browser, and what function does it serve?</li> </ol>	<ol style="list-style-type: none"> <li>1. I can define basic terms associated to the internet</li> <li>2. I can explain the process of how the internet works</li> <li>3. I can identify various browsers used for web searching</li> <li>4. I can find the html code source of a website</li> </ol>	W3Schools	Various practice assignments (group & individual) conversations and simulations (f)	
Unit 2 - Planning and Designing a Website  (1 Week)	1,2,3,4	<ol style="list-style-type: none"> <li>1. What is a wireframe chart?</li> <li>2. How does the rule of thirds affect a website?</li> <li>3. What role does color play when designing a website?</li> <li>4. How do I develop a basic page outline?</li> <li>5. Why is spacing and flow important on a website?</li> </ol>	<ol style="list-style-type: none"> <li>1. I can develop a basic wireframe map for a website</li> <li>2. I can develop a basic page outline for a business</li> <li>3. I can identify various design theories within existing websites</li> <li>4. I can evaluate existing websites based on basic design elements.</li> </ol>	W3Schools	<p>Various practice assignments (group &amp; individual) conversations and simulations (f)</p> <p>Assess and evaluate various existing websites using design, navigation and content (s)</p>	DGC1.b: Apply elements of design (contrast, repetition, alignment, proximity) when creating publications.
Unit 3 - HTML Basics	4,5,6	<ol style="list-style-type: none"> <li>1. How are websites created using HTML?</li> </ol>	<ol style="list-style-type: none"> <li>1. I can create a basic webpage using HTML Code</li> </ol>		Various practice assignments (group &	DGC2.a: Design and create

(2 Weeks)		<ol style="list-style-type: none"> <li>2. What is a tag?</li> <li>3. What tags are required to create a basic website?</li> <li>4. What is the basic html layout for a website?</li> <li>5. How do I insert basic html tags - pictures, font, background color?</li> <li>6. How do I save and manage my html files?</li> </ol>	<ol style="list-style-type: none"> <li>2. I can define what a tag is in html</li> <li>3. I can walk through the basic tags needed in every website</li> <li>4. I can create a website that has images, background colors and links</li> <li>5. I can save and manage html files for my website</li> </ol>		<p>individual) conversations and simulations (f)</p> <p>Practice site - Favorite super-heroes (f)</p> <p>6 Page Personal Site (s)</p>	dynamic websites.
Unit 4 - CSS and Style (2 Weeks)	4,5,6	<ol style="list-style-type: none"> <li>1. What is the different between inline style and style tags in a style sheet?</li> <li>2. How do I create and save a CSS Style Sheet</li> <li>3. What is the different between CSS and HTML</li> <li>4. How do I incorporate in various style into a website using CSS?</li> </ol>	<ol style="list-style-type: none"> <li>1. I can define the difference between HTML and CSS</li> <li>2. I can define the difference between in-line style and style sheets</li> <li>3. I can create a website with style tags</li> <li>4. I can create a website that has a linked style sheet</li> <li>5. I can identify style tags within an existing website</li> </ol>		<p>Various practice assignments (group &amp; individual) conversations and simulations (f)</p> <p>8 Page Hobby Site (s)</p>	DGC2.a: Design and create dynamic websites.
Unit 5 - Advanced HTML (2 Weeks)	4,5,6	<ol style="list-style-type: none"> <li>1. What is a div tag and how does it impact a website?</li> <li>2. How do I make navigation into a dropdown or bar?</li> <li>3. How can I use tables to organize information next to one another?</li> </ol>	<ol style="list-style-type: none"> <li>1. I can explain the use of div tags within an html website</li> <li>2. I can create a dropdown and bar navigation on a website</li> <li>3. I can create a table using html code</li> </ol>	W3Schools Pixlr	<p>Various practice assignments (group &amp; individual) conversations and simulations (f)</p> <p>8 Page Hobby Site (s)</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">W3Schools</div>	DGC2.a: Design and create dynamic websites.

		4. How can I create customized media to add to my website?	4. I can develop a custom banner and button 5. I can incorporate various media onto my website (Videos, pictures, banners) 6. I can use div tags to create a multi-page website		W3Schools	
Unit 6 - Responsive Technology (1 Week)	6,7,8	1. What is Responsive Technology? 2. Why is Responsive Technology important for Websites? 3. How do I utilize a template to create a website? 4. How can I troubleshoot and maintain a website?	1. I can define Responsive technology 2. I can identify websites that are using responsive technology 3. I can find, change and save a website template 4. I can identify various locations within html code and make customized changes 5. I can troubleshoot errors in html code	W3Schools	Various practice assignments (group & individual) conversations and simulations (f)  Template Website (s)	DGC2.a: Design and create dynamic websites.