

Web development 1

420-DW1-ID

Learning Guide

Course Title: Web development 1

Projects: 1

Exams: 2

Course Description

This course provides an introduction to developing Web applications for the Internet using popular languages and technologies. The primary objective of this course is to familiarize the student with HTML5 and CSS. The main concepts for each of the above languages and technologies will be discussed and reinforced with a variety of hands on exercises.

Students will use the languages and technologies learned in this course to examine client-server processing concepts, build and link Cascading Style Sheets (CSS) and create static and dynamic Web pages

Course Objectives: Upon successful completion of the course, students will be able to:

1. Describe what a Web application is and how it works.
2. Identify the required parts of an HTML document
3. Recognize the HTML tags and attributes to format a document and its text
4. Use HTML tags and attributes to format a document and its contents
5. Identify the options provided by lists to display information effectively
6. Use lists to display information
7. Identify the options provided by tables to display information effectively
8. Create and use tables to organize information on Web pages
9. Define links and anchors
10. Distinguish between absolute and relative links
11. Add links and anchors to your pages
12. Create links using text and graphics as clickable objects
13. Recognize the requirements to produce an image map
14. Prepare graphics for use in Web pages
15. Add graphics images and backgrounds to Web pages
16. Describe the application of graphics, images and backgrounds to Web pages
17. Recognize the tags used to create HTML forms
18. Describe how to create the different form elements
19. Describe the structure, properties and attributes of cascading style sheets
20. Create special effects by applying filters to HTML elements
21. Create a Web form
22. Use validation controls to validate data
23. Identify how to use Web forms effectively

Course Resources

Responsive Web Design with HTML5 and CSS 9th edition; Jessica Minnick;
Cengage; ISBN 978-0-357-42383-7

Additional Resources: Textbooks, handouts, and web links may be used in this course at the discretion of your instructor.

Hardware

- One computer per student

Software

- NotePad++, Microsoft Code or any other basic text editor

Student Data Files

The textbook practical activities will instruct you to download and access files from the Textbook companion Web site in order to complete several activities throughout the course. Please note that we have downloaded all the necessary files for you. All the files required are available in the work files section provided to you by your instructor.

Module 1 – Introduction to the Internet and Web Design

Objectives

- Define the Internet and associated key terms.
- Recognize Internet protocols
- Discuss web browsers and identify their main features
- Describe the types and purposes of websites
- Plan a website for a target audience
- Define a wireframe and a sitemap
- Explain how websites use graphics, navigation tools, typography and color
- Design for accessibility and multiplatform display
- Define Hypertext Markup Language (HTML) and HTML elements
- Recognize HTML versions and web programming languages
- Identify Web Authoring tools
- Download and use web authoring tools
- Create and view a basic HTML webpage.

➤ **Reading Assignment**

Chapter 1: Introduction to the Internet and Web Design.

<input type="checkbox"/>	Introduction
<input type="checkbox"/>	Exploring the Internet
<input type="checkbox"/>	Planning a Website
<input type="checkbox"/>	Understanding the basics of HTML
<input type="checkbox"/>	Understanding the role of other Web programming languages
<input type="checkbox"/>	Using Web authoring tools
<input type="checkbox"/>	Creating a basic web page

➤ **Practical Exercises**

<input type="checkbox"/>	To start Notepad++ and create a blank document
<input type="checkbox"/>	To add basic HTML tags to a document
<input type="checkbox"/>	To add a title and text to a web page
<input type="checkbox"/>	To save a web page
<input type="checkbox"/>	To view a webpage in a browser

➤ **End of Chapter Practical Activities**

<input type="checkbox"/>	Apply Your Knowledge Complete the Apply Your Knowledge Tasks 1 - 14
<input type="checkbox"/>	Extend Your Knowledge Complete the Extend Your Knowledge Tasks 1 - 17
<input type="checkbox"/>	Analyze, Correct, Improve Complete the Correct and Improve Tasks Note: <i>The book requests that you download the data files from the Publisher Website. The files required for the exercises are in your work files</i>
<input type="checkbox"/>	Lab 1: Creating a Webpage for Strike a chord. Complete Instructions 1-13
<input type="checkbox"/>	Lab 2: Creating a Web Page for Wildlife Rescue Organization Complete instructions 1-13

Module 2 – Designing Web Page Templates with HTML5

Objectives

- Explain how to manage website files
- Describe and use HTML5 semantic elements
- Determine the elements to use when setting the structure of a web page
- Design and build a semantic wireframe
- Create a web page template
- Insert comments in an HTML document
- Add static content to a webpage template
- Insert symbol codes and other character entities
- Describe the benefits of validating web documents
- Validate an HTML template
- Create a home page from an HTML template
- Add unique content to a webpage

➤ **Reading / Practical Activities**

Chapter 2: Building a webpage template with HTML5.

<input type="checkbox"/>	Introduction / Project - Plan and Build a Website
<input type="checkbox"/>	Designing a Website <ul style="list-style-type: none">• <i>Site map</i>• <i>Wireframe</i>• <i>File Management</i>
<input type="checkbox"/>	Practical Activity To Create a Website Folder and Subfolders
<input type="checkbox"/>	Using HTML5 Semantic Elements <ul style="list-style-type: none">• <i>Header Element</i>• <i>Nav Element</i>• <i>Main Element</i>• <i>Footer Element</i>
<input type="checkbox"/>	Creating a Webpage Template
<input type="checkbox"/>	Practical Activity To create a Webpage Template Document Complete steps 1-4
<input type="checkbox"/>	Practical Activity To Add HTML5 Semantic Elements to a Webpage Template Complete steps 1-3

<input type="checkbox"/>	Practical Activity To Add a Title to a Webpage Template Complete Step 1
<input type="checkbox"/>	Comments
<input type="checkbox"/>	Practical Activity To Add comments to a Webpage Template Complete Steps 1-5
<input type="checkbox"/>	Heading Elements
<input type="checkbox"/>	Webpage Content
<input type="checkbox"/>	Practical Activity To Add Content to the Header Section Complete step 1
<input type="checkbox"/>	Using Symbol Entities
<input type="checkbox"/>	Practical Activity To Add Text and Nonbreaking Spaces to the Nav section Complete steps 1-4
<input type="checkbox"/>	Practical Activity To Add Content and a Symbol to the Footer Section Complete steps 1-2
<input type="checkbox"/>	Validating HTML Documents
<input type="checkbox"/>	Practical Activity To Validate the Webpage Template Complete steps 1-2
<input type="checkbox"/>	Practical Activity To Validate an HTML Document with Errors Complete steps 1-3
<input type="checkbox"/>	Creating a Home Page Using a Webpage Template
<input type="checkbox"/>	Practical Activity To Create a Home Page Using a Webpage Template and Add Content Complete steps 1-3
<input type="checkbox"/>	Practical Activity To Display a Home Page in the Default Browser Complete Steps 1-2

➤ **End of Chapter Practical Activities**

<input type="checkbox"/>	Apply Your Knowledge Complete the Apply Your Knowledge Tasks 1 - 14
<input type="checkbox"/>	Extend Your Knowledge Complete the Extend Your Knowledge Tasks 1 - 10
<input type="checkbox"/>	Analyze, Correct, Improve Complete the Correct and Improve Tasks Note: <i>The book requests that you download the files from the Publisher Website. The files required for the exercises are in your work files.</i>
<input type="checkbox"/>	Lab 1: Creating a Webpage for Strike a Chord. Complete Instructions 1-19
<input type="checkbox"/>	Lab 2: Creating a Webpage for a Wildlife Rescue Complete instructions 1-19

Module 3 – Links and Images

Objectives

- Describe types of hyperlinks
- Create relative links, absolute links, email links, and telephone links
- Describe image file formats
- Describe the image tag and its attributes
- Add images to a website
- Explain div elements and attributes
- Use a div element to mark a page division
- Define the class attribute
- Describe and use HTML heading tags
- Describe the types of lists in an HTML document
- Create an unordered list and a description list
- Test and validate links on a webpage

➤ **Reading / Practical Activities**

Chapter 3: Enhancing a Website with Images and Links.

<input type="checkbox"/>	Introduction / Project - Add Images and Links to a Website
<input type="checkbox"/>	Adding Images to a Website
<input type="checkbox"/>	Practical Activity To Copy Files into the Images Folder Complete steps 1-2
<input type="checkbox"/>	Practical Activity To Add an Image to a Website Template Complete steps 1-3
<input type="checkbox"/>	Practical Activity To Add an Image to the Home Page Complete steps 1-2
<input type="checkbox"/>	Exploring DIV Elements
<input type="checkbox"/>	Practical Activity To Add DIV Elements to a Website Template Complete Steps 1-3
<input type="checkbox"/>	Practical Activity To Add DIV Elements to the Home Page Complete Steps 1-3
<input type="checkbox"/>	Adding Links to a Webpage
<input type="checkbox"/>	Practical Activity To Add Relative Links in a Website Template

	Complete steps 1-6
<input type="checkbox"/>	Practical Activity To Add an Email Link in a Website Template Complete steps 1-3
<input type="checkbox"/>	Practical Activity To Add Relative Links in the Home Page Complete steps 1-5
<input type="checkbox"/>	Practical Activity To Add an Email Link in the Home Page Complete steps 1-2
<input type="checkbox"/>	Adding Lists
<input type="checkbox"/>	Practical Activity To Create the About Us webpage and Add Content Complete steps 1-4
<input type="checkbox"/>	Practical Activity To Add Unordered Lists to the About Us Webpage Complete steps 1-3
<input type="checkbox"/>	Practical Activity To Add a Description List and Absolute Link to the About Us Webpage Complete step 1
<input type="checkbox"/>	Practical Activity To Save the About Us Webpage and View it in a Browser Complete Steps 1-5
<input type="checkbox"/>	Practical Activity To Create the Contact Us Webpage and Add a Heading and Links Complete Steps 1-5
<input type="checkbox"/>	Practical Activity To Embed a Map within a Webpage Complete Steps 1-4
<input type="checkbox"/>	Practical Activity To Preview a website in a Browser and Test Page Links Complete Step 1
<input type="checkbox"/>	Practical Activity To Validate the About Us and Contact Us Pages Complete Steps 1-6

➤ **End of Chapter Practical Activities**

<input type="checkbox"/>	Apply Your Knowledge Complete the Apply Your Knowledge Tasks 1 - 20
<input type="checkbox"/>	Extend Your Knowledge Complete the Extend Your Knowledge Tasks 1 - 17
<input type="checkbox"/>	Analyze, Correct, Improve Complete the Correct and Improve Tasks
<input type="checkbox"/>	Lab 1: Adding Links and Images for Strike a Chord. Complete Instructions 1-20
<input type="checkbox"/>	Lab 2: Adding Links and Images for a Wildlife rescue Complete instructions 1-22

Module 4 – CSS Styles

Objectives

- Explain the importance of separating design from content
- Describe Cascading Style Sheets (CSS)
- Define inline, embedded, and external styles and their order of precedence
- Describe a CSS rule and its syntax
- Explain the difference between a selector, property and value
- Create styles that use text and colour properties
- Explain the difference between inline and block content
- Describe the CSS box model and how to apply margins, padding and borders.
- Create an external style sheet and link it to an HTML page
- Create styles that use padding, border and margin properties
- Float an image
- Create styles that use list properties
- Add comments to an external style sheet
- Validate a CSS file

➤ **Reading / Practical Activities**

Chapter 4: Designing Webpages with CSS.

<input type="checkbox"/>	Introduction / Project - Format Webpages with CSS
<input type="checkbox"/>	Using Cascading Style Sheets
<input type="checkbox"/>	Understanding Inline Elements and Block Elements
<input type="checkbox"/>	Creating an External Style Sheet
<input type="checkbox"/>	Practical Activity To Create a CSS File and a Style Rule for the Body Element Complete steps 1-3
<input type="checkbox"/>	Linking an HTML Document to a CSS File
<input type="checkbox"/>	Practical Activity To Link HTML Pages to the CSS File Complete steps 1-2
<input type="checkbox"/>	Creating a Webpage Layout
<input type="checkbox"/>	Practical Activity To Position Elements Complete steps 1-5
<input type="checkbox"/>	Creating Style rules for Structural Elements
<input type="checkbox"/>	Practical Activity

	To Code the Navigation Links as an Unordered List Complete steps 1-6
<input type="checkbox"/>	Practical Activity To Style the Navigation Using CSS Complete Steps 1-4
<input type="checkbox"/>	Practical Activity To Add a Hero Image Complete steps 1-5
<input type="checkbox"/>	Practical Activity To Remove Height and Width Attributes from img Elements Complete steps 1-3
<input type="checkbox"/>	Practical Activity To Create a Style Rule for the Footer Element Complete steps 1-3
<input type="checkbox"/>	Creating Style Rules for ID Selectors
<input type="checkbox"/>	Practical Activity To Create Style Rules for IDs on the About Us Page Complete steps 1-5
<input type="checkbox"/>	Practical Activity To Create Style Rules for IDs on the Contact Page Complete steps 1-3
<input type="checkbox"/>	Creating Class Attributes
<input type="checkbox"/>	Practical Activity To Create and Style the action Class Complete Steps 1-3
<input type="checkbox"/>	Practical Activity To Create and Style the external-link Class Complete Steps 1-3
<input type="checkbox"/>	Practical Activity To Create and Style the map Class Complete Steps 1-3
<input type="checkbox"/>	CSS Reset
<input type="checkbox"/>	Practical Activity To Create a CSS Reset Complete Steps 1-2

<input type="checkbox"/>	Improving the Appearance of the Forward Fitness Club Website
<input type="checkbox"/>	Practical Activity To Remove the heading 1 Elements Complete Steps 1-2
<input type="checkbox"/>	Practical Activity To Modify a Style Rule Complete Steps 1-3
<input type="checkbox"/>	Adding Comments to CSS Files
<input type="checkbox"/>	Practical Activity To Add Comments to a CSS File Complete Steps 1-5
<input type="checkbox"/>	Validating CSS Files
<input type="checkbox"/>	Practical Activity To Validate the CSS File Complete Steps 1-2
<input type="checkbox"/>	Practical Activity To Validate a CSS File with Errors Complete Steps 1-2

➤ **End of Chapter Practical Activities**

<input type="checkbox"/>	Apply Your Knowledge Complete the Apply Your Knowledge Tasks 1 - 16
<input type="checkbox"/>	Extend Your Knowledge Complete the Extend Your Knowledge Tasks 1 - 23
<input type="checkbox"/>	Analyze, Correct, Improve Complete the Correct and Improve Tasks
<input type="checkbox"/>	Lab 1: Creating a Style Sheet for Strike a Chord. Complete Instructions 1-21
<input type="checkbox"/>	Lab 2: Creating a Style Sheet for a Wildlife Rescue Complete instructions 1-21

Module 5 – Responsive Design Part 1

Objectives

- Explain the principles of responsive design
- Describe the pros and cons of a mobile website
- Describe a mobile-first strategy
- Define a viewport
- Create a fluid layout
- Make images flexible
- Use Styles for a mobile viewport
- Insert and style a span element
- Insert a viewport meta tag
- Test a responsive site using a device emulator

➤ **Reading / Practical Activities**

Chapter 5: Responsive Design Part 1: Designing for Mobile Devices.

<input type="checkbox"/>	Introduction / Project - Redesign s Website for Mobile Devices
<input type="checkbox"/>	Exploring Responsive Design
<input type="checkbox"/>	Designing for Mobile Devices
<input type="checkbox"/>	Using Responsive Design
<input type="checkbox"/>	Cresting a Fluid Layout
<input type="checkbox"/>	Following a Mobile-First Strategy
<input type="checkbox"/>	Practical Activity To Add the Meta Viewport Element for Responsive Design Complete steps 1-2
<input type="checkbox"/>	Practical Activity To Add a Comment for Mobile Styles Complete steps 1-2
<input type="checkbox"/>	Practical Activity To Create a Sticky Header Complete steps 1-5
<input type="checkbox"/>	Practical Activity To Edit the nav Style Rule for Mobile Viewports Complete steps 1-4
<input type="checkbox"/>	Practical Activity To Edit the nav ul Style Rule for Mobile Viewports Complete steps 1-5
<input type="checkbox"/>	Practical Activity To Edit the nav li Style Rule for Mobile Viewports Complete steps 1-5

<input type="checkbox"/>	Practical Activity To Integrate a Custom Google Font Complete steps 1-10
<input type="checkbox"/>	Practical Activity To Remove the Top Border for the nav li Style Rule Complete steps 1-6
<input type="checkbox"/>	Practical Activity To Edit nav li a Style Rule Complete steps 1-2
<input type="checkbox"/>	Practical Activity To Modify the Home Page Complete steps 1-4
<input type="checkbox"/>	Practical Activity To Create a Style Rule for the mobile Class Complete steps 1-2
<input type="checkbox"/>	Practical Activity To Add a Style Rule for the tablet-desktop Class Complete step 1
<input type="checkbox"/>	Practical Activity To Add Style Rules for the tel-link Class Complete steps 1-2
<input type="checkbox"/>	Practical Activity To Add a Style Rule for the hours Class Complete steps 1-6
<input type="checkbox"/>	Practical Activity To Modify the Style Rule for the main Element Complete steps 1-3
<input type="checkbox"/>	Practical Activity To Modify the About Us Page Complete steps 1-3
<input type="checkbox"/>	Practical Activity To Add a Style Rule for the round Class Complete step 1
<input type="checkbox"/>	Practical Activity To Modify a Style Rule to Use a Single Column Complete steps 1-2
<input type="checkbox"/>	Practical Activity To Modify the Contact Us Page Complete step 1
	Practical Activity

<input type="checkbox"/>	To Modify #contact a and .map Style Rules Complete steps 1-2
<input type="checkbox"/>	Mobile-Friendly Test
<input type="checkbox"/>	Practical Activity To Validate the Style Sheet Complete Steps 1-7
<input type="checkbox"/>	Practical Activity To Validate the HTML Files Complete Steps 1-9

➤ **End of Chapter Practical Activities**

<input type="checkbox"/>	Apply Your Knowledge Complete the Apply Your Knowledge Tasks 1 - 14
<input type="checkbox"/>	Extend Your Knowledge Complete the Extend Your Knowledge Tasks 1 - 10
<input type="checkbox"/>	Analyze, Correct, Improve Complete the Correct and Improve Tasks
<input type="checkbox"/>	Lab 1: Styling the Strike a Chord Website for a Mobile Viewport Complete Instructions 1-23
<input type="checkbox"/>	Lab 2: Styling the Wild Rescues Website for a Mobile Viewport Complete instructions 1-20

Module 6 – responsive Design (Continued)

Objectives

- Understand and use media query expressions
- Explain the design principles of a tablet website
- Insert a media query to target tablet viewports
- Create style rules for tablet viewports
- Explain the design principles of a desktop website
- Insert a media query to target desktop viewports
- Create style rules for desktop viewports
- Identify and modify breakpoints
- Explain pseudo-classes
- Apply pseudo-classes to a website
- Explain linear and radial gradients
- Apply a linear gradient to a webpage for a desktop viewport

➤ **Reading / Practical Activities**

Chapter 6: Responsive Design Part 2: Designing for Tablet and Desktop Devices.

<input type="checkbox"/>	Introduction / Project - Use Media Queries to Design for Tablet and Desktop Viewports
<input type="checkbox"/>	Using Media Queries
<input type="checkbox"/>	Designing for Tablet Viewports
<input type="checkbox"/>	Practical Activity To Show and Hide Content for a Tablet Viewport Complete steps 1-2
<input type="checkbox"/>	Practical Activity To Remove a Sticky Position for the Header for a Tablet Viewport Complete steps 1-2
<input type="checkbox"/>	Practical Activity To Style the navigation Area for a tablet Viewport Complete steps 1-3
<input type="checkbox"/>	Practical Activity To Style Unordered List Elements within the Main Element for a Tablet Viewport Complete steps 1-2
<input type="checkbox"/>	Practical Activity To Restore previous Style Rules and Move Them into the Tablet Media Query Complete Steps 1-3
<input type="checkbox"/>	Practical Activity

	To Modify the Contact Us Page Complete steps 1-3
<input type="checkbox"/>	Practical Activity To Style the Map for a Tablet Viewport Complete steps 1-6
<input type="checkbox"/>	Designing for Desktop Viewports
<input type="checkbox"/>	Practical Activity To Create a Media Query for a Desktop Viewport Complete steps 1
<input type="checkbox"/>	Practical Activity To Create a Style Rule for the Header Element in the Desktop Media Query Complete steps 1-8
<input type="checkbox"/>	Practical Activity To Style the Navigation Element for a Desktop Viewport Complete steps 1-7
<input type="checkbox"/>	Practical Activity To Style the Unordered List in the Navigation Area for a Desktop Viewport Complete steps 1-5
<input type="checkbox"/>	Practical Activity To Style the List Item Links in the Navigation Area for a Desktop Viewport Complete Steps 1-8
<input type="checkbox"/>	Practical Activity To Style the Main Element for a Desktop Viewport Complete Steps 1-6
<input type="checkbox"/>	Practical Activity To Style heading 1 Elements Within the main Element for a Desktop Viewport Complete Steps 1-5
<input type="checkbox"/>	Practical Activity To Create a Multiple-Column Layout for a Desktop Viewport Complete Steps 1-10
<input type="checkbox"/>	Practical Activity To Create a Media Query for Large Desktop Viewports Complete Steps 1-3
<input type="checkbox"/>	Practical Activity To Create a Media Query for Print

	Complete Steps 1-4
<input type="checkbox"/>	Modifying Breakpoints
<input type="checkbox"/>	Practical Activity To Determine the Viewport Width for the Desktop Viewport Complete Steps 1-2
<input type="checkbox"/>	Practical Activity To Set a New Breakpoint for the Desktop Media Query Complete Steps 1-2
<input type="checkbox"/>	Using Dynamic Pseudo-Classes
<input type="checkbox"/>	Practical Activity To Add Dynamic Pseudo-Classes to a Style Sheet Complete Steps 1-2
<input type="checkbox"/>	Using Gradients
<input type="checkbox"/>	Practical Activity To Add a Linear Gradient Complete Steps 1-2
<input type="checkbox"/>	Practical Activity To Display a Website in Multiple Viewports Complete Steps 1-9
<input type="checkbox"/>	Practical Activity To Validate the Style Sheet Complete Steps 1-7
<input type="checkbox"/>	Practical Activity To Validate the HTML Files Complete Steps 1-9

➤ **End of Chapter Practical Activities**

<input type="checkbox"/>	Apply Your Knowledge Complete the Apply Your Knowledge Tasks 1 - 13
<input type="checkbox"/>	Extend Your Knowledge Complete the Extend Your Knowledge Tasks 1 - 21
<input type="checkbox"/>	Analyze, Correct, Improve Complete the Correct and Improve Tasks
<input type="checkbox"/>	Lab 1: Creating Media Queries for the Strike a Chord Website

	Complete Instructions 1-20
<input type="checkbox"/>	Lab 2: Creating Media Queries for the Wild Rescue Website Complete instructions 1-22

Module 7 – Page Layouts

Objectives

- Explain when to use article, aside and section elements
- Define figure and figcaption elements
- Redesign wireframes for tablet and desktop viewports
- Explain and use opacity property
- Describe and use the text-shadow property
- Add a banner image to a website
- Insert and style a figure element
- Insert and style a section element
- Insert and style an article element
- Insert and style an aside element
- Create a three-column layout
- Describe and use the overflow property

➤ **Reading / Practical Activities**

Chapter 7: Improving Web design with New Page Layouts.

<input type="checkbox"/>	Introduction / Project - Use HTML 5 Structural Elements to Redesign a Website
<input type="checkbox"/>	Using HTML5 Semantic Elements
<input type="checkbox"/>	Improving Design with CSS
<input type="checkbox"/>	Redesigning the Home Page
<input type="checkbox"/>	Practical Activity To Add a New div Element to the Home Page Complete steps 1-6
<input type="checkbox"/>	Practical Activity To Add a Figure Element to the Home Page Complete steps 1-4
<input type="checkbox"/>	Practical Activity To Update the Style Sheet for the New Design in a Mobile Viewport Complete steps 1-7
<input type="checkbox"/>	Practical Activity To Use the CSS Grid in a Tablet Viewport Complete steps 1-5
<input type="checkbox"/>	Practical Activity To Add New Style Rules in a Desktop Viewport Complete steps 1-4

<input type="checkbox"/>	Practical Activity To Apply a Text Shadow Complete steps 1-4
<input type="checkbox"/>	Updating the About Us Page
<input type="checkbox"/>	Practical Activity To Add Section Elements to the About Us Page Complete steps 1-3
<input type="checkbox"/>	Creating the Nutrition Page
<input type="checkbox"/>	Practical Activity To Create the Nutrition Page Complete Steps 1-6
<input type="checkbox"/>	Practical Activity To Add article and aside Elements to the Nutrition Page Complete Steps 1-6
<input type="checkbox"/>	Practical Activity To Style the Nutrition Page for a Mobile Viewport Complete Steps 1-8
<input type="checkbox"/>	Practical Activity To Style the Nutrition Page for a Tablet Viewport Complete Steps 1-4
<input type="checkbox"/>	Practical Activity To Style the Nutrition Page for a Desktop Viewport Complete Steps 1-2
<input type="checkbox"/>	Adding a Favicon
<input type="checkbox"/>	Practical Activity To Add a Favicon to a Website Complete Steps 1-6
<input type="checkbox"/>	Practical Activity To Validate the Style Sheet Complete Steps 1-7
<input type="checkbox"/>	Practical Activity To Validate the HTML Files Complete Steps 1-9

➤ **End of Chapter Practical Activities**

<input type="checkbox"/>	Apply Your Knowledge Complete the Apply Your Knowledge Tasks 1 - 20
<input type="checkbox"/>	Extend Your Knowledge Complete the Extend Your Knowledge Tasks 1 - 11
<input type="checkbox"/>	Analyze, Correct, Improve Complete the Correct and Improve Tasks
<input type="checkbox"/>	Lab 1: Integrating HTML 5 Semantic Elements for the Strike a Chord Website Complete Instructions 1-26
<input type="checkbox"/>	Lab 2: Integrating HTML 5 Semantic Elements for the Wild Rescue Website Complete instructions 1-19

Module 8 – Tables and Forms

Objectives

- Define table elements
- Describe the steps used to plan, design, and code a table
- Create a table with rows and data
- Insert a table caption
- Style a table for tablet and desktop viewports
- Describe form controls and their uses
- Use the form and input elements
- Create text input controls, labels, and check boxes
- Create a selection menu with multiple options
- Use the textarea element
- Create a Submit button
- Create a Reset button

➤ **Reading / Practical Activities**

Chapter 8: Creating Tables and Forms.

<input type="checkbox"/>	Introduction / Project - Create a Table and a Form
<input type="checkbox"/>	Discovering Tables
<input type="checkbox"/>	Practical Activity To Create the Classes Page Complete steps 1-7
<input type="checkbox"/>	Practical Activity To Add a div Element to the Classes Page Complete steps 1-12
<input type="checkbox"/>	Practical Activity To Add a Table to the Classes Page Complete steps 1-9
<input type="checkbox"/>	Styling Table Elements
<input type="checkbox"/>	Practical Activity To Style a Table for a Tablet Viewport Complete steps 1-10
<input type="checkbox"/>	Practical Activity To Style a Table for a Large Desktop Viewport Complete Step 1
<input type="checkbox"/>	Creating Webpage Forms
<input type="checkbox"/>	Practical Activity To Add a Form, Fieldset, Legend, Labels, and Text Input
<input type="checkbox"/>	

	Controls to the Contact Us Page Complete steps 1-3
<input type="checkbox"/>	Practical Activity To Add email and tel Input Controls to a Form Complete steps 1-3
<input type="checkbox"/>	Practical Activity To Add Checkbox Controls to a Form Complete steps 1-2
<input type="checkbox"/>	Practical Activity To Add a select Element to a Form Complete steps 1-3
<input type="checkbox"/>	Practical Activity To Add a textarea Element to a Form Complete steps 1-2
<input type="checkbox"/>	Practical Activity To Add a Submit Button to a Form Complete steps 1-2
<input type="checkbox"/>	Styling Forms
<input type="checkbox"/>	Practical Activity To Style a Form for a Mobile Viewport Complete Steps 1-5
<input type="checkbox"/>	Practical Activity To Style a Form for a Tablet Viewport Complete Steps 1-2
<input type="checkbox"/>	Practical Activity To Style a Form for a Desktop Viewport Complete Steps 1-2
<input type="checkbox"/>	Practical Activity To Validate the Style Sheet Complete Steps 1-8
<input type="checkbox"/>	Practical Activity To Validate the HTML Files Complete Steps 1-9

➤ **End of Chapter Practical Activities**

<input type="checkbox"/>	Apply Your Knowledge Complete the Apply Your Knowledge Tasks 1 - 17
<input type="checkbox"/>	Extend Your Knowledge Complete the Extend Your Knowledge Tasks 1 - 13
<input type="checkbox"/>	Analyze, Correct, Improve Complete the Correct and Improve Tasks
<input type="checkbox"/>	Lab 1: Adding a Table and Form to the Strike a Chord Website Complete Instructions 1-26
<input type="checkbox"/>	Lab 2: Adding a Table and Form to the Wild Rescues Website Complete instructions 1-26

It's now time for the midterm exam. Make sure you are comfortable with CSS styling and HTML tables. Go see your instructor when you are ready.

Module 9 – Audio and Video Integration

Objectives

- Describe the benefits and limitations of multimedia websites
- Identify audio formats
- Identify video formats
- Describe a Plug-in
- Understand codecs
- Understand and create audio elements
- Understand and create video elements
- Identify common audio attributes
- Identify common video attributes
- Understand the source element
- Test audio elements
- Test video elements

➤ Reading / Practical Activities

Chapter 9: Integrating Audio and Video.

<input type="checkbox"/>	Introduction / Project - Add Audio and Video to a Webpage
<input type="checkbox"/>	Using Multimedia
<input type="checkbox"/>	Integrating Audio
<input type="checkbox"/>	Practical Activity To Add Audio to the Classes Page Complete steps 1-3
<input type="checkbox"/>	Integrating Video
<input type="checkbox"/>	Practical Activity To Add Video to the About Us Page Complete steps 1-3
<input type="checkbox"/>	Practical Activity To Style the Video Complete steps 1-4
<input type="checkbox"/>	Practical Activity To Create a Captions File Complete steps 1-4
<input type="checkbox"/>	Practical Activity To Add a Track Element Complete step 1
<input type="checkbox"/>	Practical Activity To View Video Captions Using Web Server for Chrome Complete steps 1-7
<input type="checkbox"/>	Practical Activity To Validate the Style Sheet Complete Steps 1-8

<input type="checkbox"/>	Practical Activity To Validate the HTML Files Complete Steps 1-9
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➤ **End of Chapter Practical Activities**

<input type="checkbox"/>	Apply Your Knowledge Complete the Apply Your Knowledge Tasks 1 - 15
<input type="checkbox"/>	Extend Your Knowledge Complete the Extend Your Knowledge Tasks 1 - 8
<input type="checkbox"/>	Analyze, Correct, Improve Complete the Correct and Improve Tasks
<input type="checkbox"/>	Lab 1: Adding Audio to the Strike a Chord Website Complete Instructions 1-21
<input type="checkbox"/>	Lab 2: Adding a Video to the Wild Rescues Website Complete instructions 1-14

Module 10 – CSS Interactivity and Publishing a Website

Objectives

- Add animations using CSS
- Describe search engines
- Explain search engine optimization (SEO)
- Create description meta tags
- Create a Sitemap File

Note: This module will not be evaluated in the final exam and project

➤ **Reading / Practical Activities**

Chapter 10: Creating Interactivity with CSS and JavaScript.

<input type="checkbox"/>	Using CSS to create interactivity
<input type="checkbox"/>	Practical Activity To Apply a CSS Transform to a Webpage Complete steps 1-4
<input type="checkbox"/>	Practical Activity To Add Animation to a Webpage Complete steps 1-4

JavaScript will be seen in another course as it relates to programming. You can therefore skip the rest of chapter 10

➤ **Reading / Practical Activities**

Chapter 11: Publish and Promote a Website.

<input type="checkbox"/>	Introduction / Project - Publish and Promote a Website
<input type="checkbox"/>	Using Social Media
<input type="checkbox"/>	Practical Activity To Add Social Media Icons and Links to the Home Page Complete steps 1-5
<input type="checkbox"/>	Practical Activity To Add Social Media Icons and Links to Webpages Complete steps 1-7
	Practical Activity To Style the Copyright Class Complete steps 1-2

	Practical Activity To Style the Social Class Complete steps 1-5
	Finding a Website
	Practical Activity To Modify Titles and Add a Description Meta Tag to a Webpage Complete steps 1-5
	Practical Activity To Create a Sitemap File Complete step 1

It is now time for your final exam and project. Go see your instructor when you are ready.