

## **Website Development; Winter 2019**

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**Class Expectations:** All guidelines posted in the Student Handbook will be followed. Respect all. Group discussions will be common during this course. You will have different opinions than your peers. Present them in a respectful manner. Do say, "Have you ever thought about "Your Opinion," rather than, "That's the dumbest thing I ever heard." You will not need your cell phone during this class. Turn it off before the opening bell rings. Computers bring freedom. Stay on task. Never play games on the computer, cell phone, tablet, or other devices. We are here to learn about website development, from bell to bell, every day, for the next five months. If you are bored, work ahead. If you miss a class, you are expected to make up the missed work on your own, within the number of days you missed. If you need help outside of class hours, I am available Thursday mornings starting at 7:10 a.m. and every day during your lunch block, and by setting up an appointment, almost every day after school.

**The Room:** My classroom has a lot of wires hanging down from the computers. Do your best to avoid tripping on them. Be especially careful when retrieving something from the printer. There are several wires hanging loose from the teacher desk near the printer. In the event of an emergency evacuation, exit the room quickly and quietly. Use the stairway opposite my door, and meet me in the staff parking lot for attendance.

**Go with the flow:** I will be adapting to your needs throughout the course, so some "things" may change.

### **Course Outline:**

#### **Unit 1: Designing and Planning Web Pages**

Module 1: Basic Site Evaluation and Rubric Creation

Lesson 1: Surveying the Possibilities

Lesson 2: Developing a Website Evaluation Tool

Module 2: Color Theory

Lesson 1: Color Theory in Web Design

Module 3: Web Standards & Accessible Design

Lesson 1: Web Standards

Lesson 2: How People with Disabilities Access the Web

Module 4: Planning a Website

Lesson 1: Organizing a Website

#### **Unit 2: Creating Pages with HTML**

Module 1: Pre-Coding (Module 1)

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## Module 2: Basic HTML Markup

Lesson 1: HTML Syntax

Lesson 2: Essential Tags

Lesson 3: Common Tags

## Module 3: HTML Lists

Lesson 1: Lists

Lesson 2: Creating a Navigation Menu

## Module 4: Creating Links

Lesson 1: Linking to External Internet Sites

Lesson 2: Linking to Pages Within Your Website

Lesson 3: Special Types of Links

## Module 5: Creating a Data Table (Module 5)

Lesson 1: Creating a Data Table (Lesson 1)

## Module 6: HTML Video

Lesson 1: Adding Video to Web Pages

Lesson 2: Adding Captions to Videos

## Module 7: Unit 2 Reflections

### **Unit 3: Formatting Web Pages with Style Sheets**

#### Module 1: Introduction to Cascading Style Sheets

Lesson 1: Anatomy of a Style

Lesson 2: Applying Styles

Lesson 3: Linking to an External Style Sheet

#### Module 2: Color in CSS

Lesson 1: Understanding Color in CSS

Lesson 2: Applying Color in CSS

#### Module 3: Typography in CSS

Lesson 1: Understanding Typography in CSS

Lesson 2: Applying Typography in CSS

#### Module 4: The Box Model in CSS

Lesson 1: Understanding The Box Model in CSS

Lesson 2: Applying The Box Model in CSS

#### Module 5: The Role of ID and Class in CSS

Lesson 1: Understanding ID and Class in CSS

Lesson 2: Applying ID and Class in CSS

Lesson 3: Pseudo-class Selectors in CSS

Module 6: Page Layout Techniques

Lesson 1: Page Layout with CSS

Lesson 2: Stylizing a Navigation Menu with CSS

Module 7: Unit 3 Reflections

#### **Unit 4: Graphics**

Module 1: Introduction to Web Graphics (Module 1)

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Lesson 2: Copyright Law and Graphics on the Web

Module 2: Creating a Web Photo Album

Lesson 1: Understanding Web Graphics

Lesson 2: Acquiring Images for Web Graphics

Lesson 3: Cropping and Resizing

Lesson 4: Adding Images to Your Web Page

Module 3: Creating a Button

Lesson 1: Basic Shapes and Colors

Lesson 2: Working With Layers

Lesson 3: Optimizing GIF Images

Lesson 4: Creating a Favicon

Module 4: Creating a Web Page Banner

Lesson 1: Selection Tools

Lesson 2: Layer Effects and Blending

Lesson 3: Background Images

Module 5: Unit 4 Reflections

#### **Unit 5: Scripting**

Module 1: Overview of Scripting on the Web

Lesson 1: Client-side vs. Server-side Scripting

Module 2: JavaScript

Lesson 1: Using JavaScript to Show an Alert

Lesson 2: JavaScript Errors and Debugging

Lesson 3: Building a JavaScript Clock Part 1

Lesson 4: Building a JavaScript Clock Part 2

Lesson 5: Using JavaScript to Hide and Show Content

Lesson 6: Building a Custom Video Player

Module 3: Unit 5 Reflections

### **Unit 6: Quality Control**

Module 1: Validating Websites

Lesson 1: Validating Your HTML

Lesson 2: Validating Your CSS

Lesson 3: Validating Your Accessibility

Module 2: Testing Usability

Lesson 1: Conducting a Usability Test

Module 3: Unit 6 Reflections

### **Unit 7: Website Management and Authoring Tools**

Module 1: Web Authoring Software

Lesson 1: Basic Features of Web Authoring Software

Lesson 2: Content, Structure, Presentation, and Behavior

Lesson 3: Site Management Features

Module 2: Publishing on the Web

Lesson 1: Website Hosting Services

Lesson 2: Website Publishing Tools

Module 3: Unit 7 Reflections

Unit 8: Client Website (Unit 8)

Module 1: Client Website (Module 1)

Lesson 1: Planning the Client Website

Lesson 2: Constructing the Client Website

Lesson 3: Quality Control of the Client Website

Module 2: Unit 8 Reflections

### **Grading**

Grading will be done on a “total points” basis distributed between Website Projects, Quizzes and Tests, Required Daily Assignments, Group Participation and Class Participation.