

# **HTML and CSS – Spring 2017**

**WEB 110-002 (12225) – Wednesday 9 AM – 11:50 AM – RC 355**

**Web Development and Digital Media Department**

**Computer Science and Information Technology Division**

**Johnson County Community College**

**Instructor Information:** Patrick Lafferty, Associate Professor, Web Development and Digital Media

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Office hours: <http://prof.lafferty.me/oh>

T: 8:50 PM – 9:20 PM

W: 1:00 PM – 2:00 PM, 2:50 PM – 4:50 PM, 8:50 PM – 9:20 PM

R: 5:50 PM – 6:20 PM

Sat: 11:50 AM – 12:20 PM

**Course Information:** Credit hours: 3 Contact hours: 3 Lecture hours: 3

Pre- or Co-requisites:

Required textbook: Basics of Web Design, 3<sup>rd</sup> Edition by Felke-Morris ISBN: 9780133970746

Supplies: Removable storage (preferably a flash drive)

Other requirements:

Course Description: This course will cover the essential skills needed to create websites, with a focus on using HyperText Markup Language (HTML) and Cascading Style Sheets (CSS). Students will be introduced to the concepts, foundations, syntax and structure of HTML. Additional topics include the use of File Transfer Protocol (FTP) to publish websites and validation to web standards established by the World Wide Web Consortium (W3C) and other organizations.

## **Course Objectives:**

Upon successful completion of this course, the student should be able to:

1. Explain how to create sites that are compliant with current W3C (World Wide Web Consortium) standards in Web development.
2. Create valid and semantically correct HTML pages.
3. Organize website files and FTP them to the Web.
4. Create valid HTML tables.
5. Create absolute, relative and anchor links.
6. Apply cascading styles to an HTML document through inline CSS, internal style sheet or external style sheet.
7. Test and troubleshoot HTML and CSS.
8. Create Web forms using HTML and style them with CSS.

**[Jump to the Course Calendar](#)**

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## **Content Outline:**

### I. Web Page Building Blocks

- A. Develop Web page files.
- B. Describe W3C Web standards.
- C. Discuss how Section 508 of the Americans with Disabilities Act affects Web page design.
- D. Write the source code of a Web page.
- E. Describe Web page elements, attributes and values.

### II. HTML Structure and Formatting

- A. Declare the encoding and create the foundation.
- B. Write semantically correct HTML.
- C. Identify the body of the Web page.
- D. Apply styles.
- E. Create structures for the Web page.
- F. Create hypertext and hypermedia links.

### III. Web Page Files

- A. Define Web file naming conventions and file management.
- B. Use FTP to deploy pages to a Web server.

### IV. Tables

- A. Discuss the appropriate use for HTML tables.
- B. Create and modify HTML table rows and columns.
- C. Apply styles to tables.

### V. Absolute, Relative and Anchor Links

- A. Create links.
  - 1. Relative links to other pages
  - 2. Absolute links to other websites
- B. Create anchor links.
- C. Create targeting links.
- D. Use images as links.
- E. Discuss image maps.

VI. Cascading Style Sheets

- A. Apply style rules.
- B. Select elements by name, type or id.
- C. Select part of an element.
- D. Specify groups of elements.
- E. Create an external style sheet.
- F. Create an internal style sheet.
- G. Apply styles locally.
- H. Apply font family, italics, bold, size and font values.
- I. Set text color, text background, text spacing and indents.
- J. Apply background and foreground color.
- K. Apply borders, padding and margins of elements.
- L. Apply alignments.
- M. Apply float.
- N. Create flexible layouts.

VII. Testing and Validation

- A. Test and validate HTML of the published website.
- B. Test and validate CSS of the published website.
- C. Employ popular Web browsers to test Web pages.

VII. Web Forms

- A. Create a Web form.
- B. Create form styles using CSS.
- C. Define form fieldsets and legends.
- D. Create form labels.

**Methods of Evaluation:**

Evaluation of student mastery of course competencies will be accomplished using the following methods:

**Grade Distribution:**

Seven Case Studies @ 10pts each	70
Eight Quizzes @ 20pts each	160
Final Project	<u>100</u>
	<u>330 pts</u>

**Grading Scale:**

A = 90 – 100
B = 80 – 89
C = 70 – 79
D = 60 – 69
F = below 60

**On Grades:**

While I hope you earn a good grade in this course, recognize that learning alone will not earn you high marks. Some of my most inquisitive and bright students have failed this class because they did not do the work required. **DO NOT LET THIS HAPPEN TO YOU!**

**Late Projects and Papers:**

Late projects and papers will receive a lowered grade. The grade *will be lowered one full letter grade for each day*, not class period, the work is late.

**On participation:**

Attendance is important. Just as important, though, is a constructive attitude and productive work habits, both as individuals and in collaborative group efforts. They affect the tenor of the classroom and will be a factor in determining grades.

As a registered student you are automatically given a student email account. Please remember that your conduct online is governed by the [JCCC Student Code of Conduct 319.01](#), including the [JCCC Social Media Policy 520.00](#) and [JCCC Social Media Guidelines 520.01](#). All communications outside of class will be communicated via the class email. All FERPA-protected information will only be communicated via your stumail account. You are required to check your student email account at least once per day as part of your class participation grade. It is strongly encouraged that you check both more frequently than that.

As a registered student, you are also automatically given a student server account. Please visit <http://students.jccc.net> to set up your student email account and your student server space.

Students will need to spend additional time in computer labs in order to complete projects.

**No Lectures or Demonstrations will be repeated.  
Students are responsible for information missed due to absence.**

**On Language**

I do not tolerate [pejorative](#) language of any kind in my classroom. This includes, but is not limited to, disparaging language regarding creed, color and sexual orientation. Use of such language will result in **severe damage to your grade**. If you are not sure if you are being derogatory, err on the side of caution. This applies to both digital and physical environments.

**ADA compliance statement**

If you are a student with a disability and you will be requesting accommodations, it is your responsibility to contact Access Services. Access Services will recommend any appropriate accommodations to Professor Lafferty and his Assistant Dean. Professor Lafferty and his Assistant Dean will identify for you which accommodations will be arranged.

JCCC provides many services to allow persons with disabilities to participate in educational programs and activities. Appropriate documentation of disability will be required to obtain support services. If you need support services, contact the Access Services in 202 Student Center or call (913) 469-8500 ext. 3974 or (914) 469-3885 TDD.

## Academic Dishonesty Statement

No student shall engage in behavior that, in the judgment of Professor Lafferty, may be construed as cheating. This may include, but is not limited to, plagiarism or other forms of academic dishonesty such as the acquisition without permission of tests or other academic materials and/or distribution of these materials. This includes students who aid and abet, as well as those who attempt such behavior.

## HTML and CSS

Tentative Class Schedule: Wednesdays

In-Class Subject/Project

Homework

### Class 1: January 18

1. Download/install/use [Sublime Text](#) (This is free software you'll use to create all of your web pages.)
2. Access your **JCCC Student File Server and Web Server Space** by completing the steps in the following site: <http://www.jccc.edu/student-resources/technical-support/student-server.html#.VSs805NSW5I>
3. Download/install/use [Filezilla](#) by completing the steps at the site above. [Filezilla Guide \(PDF\)](#)

Note: If you ever have trouble with the student server, the first place to go is <http://students.jccc.net>

### To test that all is well...

1. Using FileZilla, login to the JCCC web server and create a folder named **glossary** within **public\_HTML**. at your location at the JCCC Web server. (Note: do not move, change, or rename the public\_HTML. folder – all files/folders you create for this class must be within that folder or sub-folders in order to be translated into a corresponding URL.)
2. Create a “Hello World” web page per the steps on page 21. Name the Web page **hello.htm** and use FileZilla to upload the file to your **glossary** folder within the **public\_HTML**. folder.
3. Open any browser and enter <http://students.jccc.edu/yourusername/glossary/hello.htm>
4. Do you see your **hello.htm** web page in your browser? If so congratulations! If not, let me know ASAP.
5. Read Chapter 1 – The Internet and Web Basics

### Class 2: January 25

1. Lecture on Chapter 1 – The Internet and Web Basics

1. Read Chapter 2 – HTML Basics

**Class 3: February 1**

1. Quiz covering Chapter 1
2. Lecture on Chapter 2 – HTML Basics

*(I do not collect the “hands on exercise” homework, but yes, encourage you to do them as they will definitely help you learn.)*

URL for **pacific2** folder:

<http://students.jccc.edu/yourusername/pacific2/index.htm>

*(Your pacific2 folder will also have the **yurts.htm** file but you only need to submit the corresponding **index.htm** URL)*

Complete the Pacific Trails Resort Case Study on pages 61-64. Be sure to spell-check your content.

1. Create a folder named pacific2 under the public\_html folder.
2. Upload your index.htm and yurts.htm files to the pacific2 folder.
3. Submit the final URL via email.  
(It doesn't matter if the extensions to your pages are HTM or HTML. Please just stay consistent.)
4. Read Chapter 3 – Web Design Basics

**Class 4: February 8**

1. Pacific2 due by 9AM
2. Quiz covering Chapter 2
3. Lecture on Chapter 3 – Web Design Basics

1. Pick a **Final Project subject** and send me an email [lafferty@jccc.edu](mailto:lafferty@jccc.edu) with your choice. (See Final Project Subjects and Final Project Grading Rubric sheets in Excel **cweb110** spreadsheet on D2L.)
2. Read Chapter 4 – Cascading Style Sheet Basics

**Class 5: February 15**

1. Final Project subject submitted by 9AM
2. Lecture on Chapter 4 – Cascading Style Sheet Basics

1. Complete the Pacific Trails Resort Case Study on pages 136-138. (3 files). Create a **pacific4** folder under **public\_html**. You'll create a new folder using this nomenclature for each project.
  - ...index.htm,
  - ...yurts.htm
  - ...pacific.css
2. Read Chapter 5 – Web Graphics Styling Basics

If you haven't begun your final project  
and started adding to it as your skills develop,  
you are behind at this point.

### **Class 6: February 22**

1. Pacific4 submitted by 9AM
2. Quiz covering Chapter 4
3. Lecture on Chapter 5 – Web Graphics Styling Basics

1. Complete the Pacific Trails Resort Case Study on pages 168-171. (10 files)  
...index.htm...activities.htm...coast.jpg...favicon.ico...marker.gif...pacific.css ...sunset.jpg...trail.jpg  
...yurt.jpg...yurts.htm

### **Class 7: March 1**

1. Chapter 5 continued...

1. Read Chapter 6 – More CSS Basics

### **Class 8: March 8**

1. Pacific5 submitted by 9AM
2. Quiz covering Chapter 5
3. Lecture on Chapter 6 – More CSS Basics

1. Complete the Pacific Trails Resort Case Study on pages 205-208. 12 files: 10 files like **pacific5** plus  
...background.jpg ...ptrbackground.jpg

2. Read Chapter 7 – Page Layout Basics

### **March 15**

1. NO CLASS – Spring Break

### **Class 9: March 22**

1. Pacific6 submitted by 9AM
2. Quiz covering Chapter 6
3. Lecture on Chapter 7 – Page Layout Basics

1. Complete the Pacific Trails Resort Case Study on pages 241-242. (12 files like **pacific6**)
2. Read Chapter 8 – Mobile

**Class 10: March 29**

1. Pacific7 submitted by 9AM
2. Quiz covering Chapter 7
3. Lecture on Chapter 8 – Mobile

1. Complete the Pacific Trails Resort Case Study on pages 275-279. (12 files like [pacific7](#))
2. Read Chapter 9 – Tables

**Class 11: April 5**

1. Chapter 8 continued...

1. Complete the Pacific Trails Resort Case Study on pages 275-279. (12 files like [pacific7](#))
2. **Read Chapter 9 – Tables**

**Class 12: April 12**

1. Pacific8 submitted by 9AM
2. Quiz covering Chapter 8
3. Lecture on Chapter 9 – Tables

1. Create a folder in [public\\_html](#) called [glossary](#)
2. Create a web page named [glossary1.htm](#) (inside the [glossary](#) folder) to create a table of all of the glossary terms from Chapter 1 (see the Excel cweb110 spreadsheet for a listing of all of the glossary terms from Chapter 1).
3. Use a 3-column table and fill in the Acronym column if the term is an acronym. Fill in the Definition cell for each acronym and term.
4. You will use skills from the Hands-On Practices 1.1 and 9.1 to complete this activity. Be sure to spell-check all pages.
5. Post the [glossary1.htm](#) page to your glossary folder on the JCCC Web server.
6. Submit the final URL via email to [lafferty@jccc.edu](mailto:lafferty@jccc.edu)
7. Read Chapter 10 – Form Basics

**Reminder: Final Project is DUE in one month!**



**Class 13: April 19**

1. Glossary submitted by 9AM
2. Lecture on Chapter 10 – Form Basics

1. Complete the Pacific Trails Resort Case Study on pages 342-345. (12 files like [pacific8](#) plus...reservations.htm)

**Class 14: April 26**

1. Chapter 10 continued...

1. Make sure your final project is coming together
2. Finish Pacific10

**Class 15: May 3**

1. Pacific10 submitted by 9AM
2. Quiz covering Chapter 10
3. Final Project Consultations

1. Finish Pacific 10 and your final project

**Final: May 10**

1. Final Project Presentations

**Final Exam Week: Saturday, May 13 – Friday, May 19**

**Final Grades will be available online by 12 PM on May 24.**

*Report all campus emergencies to the JCCC Police Department.*

**Dial 4111** from any campus phone

**Dial 913-469-2500** from any cell phone

**In the event of an emergency, move to a secure location on the third floor of the Regnier Center.**

## RC, Third Floor

