

WEB 1400 Web Design & Usability Syllabus

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Course Description:

In this course students will go through the steps in planning, designing, and implementing a website using current web technologies (i.e., Adobe XD, Brackets, HTML, and CSS). For the course project, students will create a website that includes a navigation bar, headings and paragraphs, buttons, images and media, lists, a table, and a form.

Student Learning Outcomes

Upon successful completion of this course students will be able to

- 1) use good coding practices to build web pages with proper HTML5 elements
- 2) add rules to CSS stylesheets to add layout and design to HTML elements
- 3) be aware of the people making up a web development team and the steps in the web development process
- 4) create a website that is aesthetically pleasing considering color, images, typography, grid-based layouts, and overall look and mood
- 5) use the CSS box model to apply margin, padding, and border properties to web page elements
- 6) build a horizontal or vertical navigation bar with text and/or graphic links
- 7) present information and data in an organized manner by constructing lists and tables,
- 8) create web forms to collect information from a user or to send an email
- 9) consider usability and accessibility to improve the overall user satisfaction
- 10) understand the fundamentals of making a website mobile friendly through flexible layouts and media queries for various screen sizes
- 11) choose a web hosting service provider, register a domain name, and publish a website

Required Materials:

Software:

You will use the Brackets text editor to enter content for web pages. However, this software can be downloaded free of charge on the brackets.io website.

One of the requirements of the course is to create a mockup of a website using Adobe Xd. This is a relatively new software program and is in beta format. You can download the beta version free with an Adobe account.

The final project of the course involves building a five-page website and publishing it online. You will need to choose a web hosting service, decide on a domain name, and then transfer your files to the web server to publish your website. You can go with x10hosting.com which provides free hosting services and a free domain for a year. Towards the end of the AAS degree you will take a web portfolio class (WEB 2890) which will require that you create a web portfolio. Therefore, you may want to choose a more long-term web hosting provider so that you will have your own website on a more long-term basis.

Textbook:

Title: Learn to Code HTML and CSS

Author: Shay Howe

The good news is that the textbook can be viewed on the author's website at <http://learn.shayhowe.com/html-css/>

However, if you would like to purchase a hard copy of the book, see the following information:

Publisher: New Riders

Pub. Date: May 06, 2014

Print ISBN-10: 0-321-94052-0

Print ISBN-13: 978-0-321-94052-0

Web ISBN-10: 0-13-347759-2

Web ISBN-13: 978-0-13-347759-7

Assignments and Grading:

Your final grade will be based on the total points you earn on six lab assignments and a final project.

Lab Assignments 50%

The lab assignments will give you a chance to determine how well you really understand the Learn to Code concepts. Six lab assignments are scheduled for the semester on the following topics.

Lab 1: HTML and HTML5 Elements

Lab 2: Basic CSS Selectors and Style Rules

Lab 3: Box Model, Fixed and Flexible Layouts with Floats

Lab 4: Font and Text Style Rules

Lab 5: Colors, Backgrounds, Images, and Media

Lab 6: Lists and Forms

Website Project 50%

For the course project you will code a five-page website from scratch using HTML and CSS. The project will be broken down into three parts.

Part 1: Use Adobe Xd to create a mockup of each page of the website.

Part 2: Code the first two pages. Choose a web hosting service and domain name. Publish the work in progress to your website.

Part 3: Code the remaining three pages of your website.

Class Procedures and Policies

Weekly Modules

The tasks that you should complete each week are listed under the Canvas modules link. You will see links to videos that you should view and material that you should read. A link is provided to Canvas assignment windows from the modules.

Accessing/Submitting Assignments:

Assignments can be accessed by clicking on the Canvas Assignments link. The Canvas calendar indicates assignment deadlines. You can also click on the Grades link to see your grades for each assignment. The lab assignment files and final project mockup files will be submitted in the Canvas assignment window. The final project will be published to a website with your domain name. You will also zip the project folder and upload it to the Canvas assignment window.

Late Work:

Please see the class schedule to be aware of what will be covered each week. The schedule indicates what material you need to read, videos you will need to view, and assignments you will need to complete.

Due dates for assignments will be posted on the Canvas class calendar. If you miss a due date for the lab assignments and the first two parts of the project, you have one week to submit an assignment late with a late penalty of 10%. If you are ill or a family emergency comes up, please contact your instructor prior to the class period in which an assignment is due or as soon after as possible.

Tips for Success:

As a general rule you should spend at least twice as much time outside of class as in class. Each week you should read the *Learn to Code* textbook lesson and watch the video lectures. Also, you should complete the exercises that are integrated into each of the Learn to Code lessons. The short exercises are a great way to practice the concepts covered in the lesson. When completing the lesson exercises, you will build a website that provides

information on a web design styles conference. The website includes a home page along with three additional pages providing info on speakers, a schedule of events, and a registration form.

Successful students read the upcoming material ahead of time. They participate actively in class. They complete each of the CIAB lessons, even when they are not required to be submitted for a grade.

If you are struggling with any concept, please come see me during office hours. You are encouraged to ask questions during class when you don't understand something.

Ethical Conduct:

During this class you will be expected to maintain academic ethics and honesty. Please refer to the WSU's Student Code for a review of your academic rights and responsibilities. The Student Code is provided at the following URL: http://www.weber.edu/ppm/Policies/6-22_StudentCode.html (Links to an external site.).

Cheating on assignments or tests will not be tolerated. All work must be your own. If you submit another student's work, you will be assigned a failing grade for that assignment. If it happens a second time, the student will fail the class.

The Internet is full of sample code and web templates. Also, you can access the code to any website for your own use. You are encouraged to examine what the internet has to offer, but your final project for the course should be coded by you alone. You can ask another student, a friend, or spouse questions about an assignment. You can even ask them to help you troubleshoot a coding problem. But in the end you need to be the one that completes the steps for the assignments.

Technical Support:

For assistance with Canvas or related technical issues, please call 626-6499. This phone is staffed Mon-Thurs from 8am - 5pm and Fridays from 8 - 4:30pm. A message can be left during non-business hours for a return call. Alternatively, students can send an email message to wsuonline@weber.edu

If you are having technical issues related to usernames/passwords, please call the Service Desk at 626-7777, or email csupport@weber.edu.

Accommodations for Students with Disabilities:

Any students requiring accommodations or services due to a disability should contact Services for Students with Disabilities (SSD) in Room 181 of the Student Service Center. SSD can also arrange to provide course materials (including this syllabus) in alternative formats if necessary. Please provide your instructor with a signed letter from the SSD if you require additional time or other accommodations during tests.

Course Fee Statement:

Course fees for the Computer Science major are designed to cover the costs of lab equipment maintenance and replacement including desktop and server computer systems and software; consumable materials and supplies; and support for lab aides, student tutors, and online instructional resources.