**CS50B: Web Development 2
Section 5407, Spring 2019 Course Syllabus**

**Instructor:** Ethan Wilde, ewilde@santarosa.edu

**Course Description**

Combines hand-coded exercises in CSS code with Bootstrap, a front-end development tool. Students will expand their CSS skills as they format text, display images, layout pages, and create navigational systems. Bootstrap will provide the basis for an e-folio that is customized with hand coding.

**Recommended Preparation:** Eligibility for ENGL 1A or equivalent

**Prerequisites:** Course Completion of CS 50A OR CS 50.11B

*Whether you want to become a professional member of a web development team, or just want to create your own personal site, mastery of HTML and CSS is essential to those goals. We will engage in advanced HTML5 and CSS3 work while using the Bootstrap framework, the JavaScript language and the jQuery library, as well as the WordPress Content Management System. You will be proficient in the creation of interactive websites using static files as well as CMS-generated HTML.*

**Student Learning Outcomes**

**Students will be able to:**

1. Use CSS code that meets current industry standards to layout a site, create navigation, and control color and text.
2. Apply appropriate terminology to describe CSS selectors, styles, and units.
3. Create CSS code that is supported by current browsers, complies with accessibility standards, and validates under current industry standards.

**Upon completion of the course, students will be able to:**

1. Describe the current status of CSS implementation across various browsers.
2. Analyze and modify an existing web site's HTML and CSS using a Browser Code Inspector.
3. Use Bootstrap to create an efolio site.
4. Create webpages, which are styled using HTML, CSS, and JavaScript.
5. Produce validated HTML and CSS documents.
6. Produce a file / folder structure that matches industry standards.
7. Apply the principles of the cascade, inheritance, pseudo classes, pseudo elements, and advanced selectors in CSS documents.
8. Produce an e-folio created using Bootstrap HTML, CSS and JavaScript with hand coded CSS modifications.
9. Demonstrate appropriate use of CSS properties.

**Topics and Scope:**

1. Overview: HTML, CSS, JavaScript
2. CSS selectors
3. Structure and the cascade
4. Bootstrap efolio
5. Fonts / Text
6. Position
7. Backgrounds
8. Images
9. Layout
10. Bootstrap layout
11. Navigation
12. Bootstrap Navigation
13. Content Management Systems (CMS)
14. WordPress CMS

**Assignments:**

1. Regular textbook reading
2. Fourteen (14) assignments. All webpages must be uploaded to the class-provided hosting account on the Internet and must validate.
3. Two (2) quizzes, a midterm and final exam
4. Website critiques
5. Participation in electronic message board discussions

**Class Meetings**

**Spring 2019 Schedule**

|  |  |  |
| --- | --- | --- |
| Online | Weeks start on Wednesdays | Canvas shell |
| Live weekly Web conference (optional)<https://cccconfer.zoom.us/j/135129123>  | Wednesdays, 4:15pm - 5:15pm | Zoom |

*All class materials for each module will be released online in Canvas on Wednesdays throughout the entire semester. A weekly live online meeting will be held on Wednesdays, 4:15pm- 5:15pm. Attendance at the live web conferences is optional but highly recommended. Use this link to join:*[*https://cccconfer.zoom.us/j/135129123*](https://cccconfer.zoom.us/j/135129123)

**Instructor Contact**

**Ethan Wilde**

Email: ewilde@santarosa.edu

Phone: 707-527-4855

**Spring 2019 Office Hours
*January 14 – May 17, 2019***

|  |  |  |
| --- | --- | --- |
| Tuesdays (in office) | 12:40pm - 2:00pm | Maggini 2937 |
| Thursdays (online) | 10:00am - 3:00pm | Online: Email ewilde@santarosa.edu or Skype [*ethanwilde*](https://join.skype.com/invite/TIvoQmrUjQBu) |

[» Reserve a future office hour appointment](http://srjc.ethan.com/reserve/)

I respond to emails within 48 hours. I never respond on Sundays.

**Course Web Site**

**Online Students will use the Canvas course web site to access all course content,** for assignment instructions, submitting assignments, viewing classmates' work, sharing resources, and viewing grades.

**Textbook**

***WordPress Complete***(6th)
Karol Król
1787285707 (ISBN 10)
978-1787285705 (ISBN 13)
[Publisher book site available](https://www.packtpub.com/application-development/wordpress-complete-sixth-edition)

*Consider buying a used copy.* You can locate and order textbooks online via the [SRJC Bookstore](http://bookstore.santarosa.edu/santarosa/home.aspx).

**Equipment**

* **A personal computer**, either at home, work or on the Santa Rosa or Petaluma campuses.

**Required Software + Services**

* **Internet access**
* **Web browser**
	+ [Google Chrome](https://www.google.com/chrome/browser/desktop/) strongly recommended
* **Text editor,** for Week 1 only, such as:
	+ [TextWrangler](http://www.barebones.com/products/textwrangler/) (Mac OS only)
	+ [Brackets](http://brackets.io/) (Windows, Mac OS)
	+ [Sublime Text](https://www.sublimetext.com) (Windows, Mac OS, Linux)
* **Cloud hosting + development service**
	+ [Cloud9](https://c9.io/) IDE (Integrated Development Environment) required for all students, starting Week 2, for hosting class assignments. This service provides a complete set of browser-based tools in place of the optional software listed below. *Complete the hosting survey to get your free account.*
* **Graphics software** such as:
	+ Adobe Photoshop, part of a [Creative Cloud](http://www.adobe.com/creativecloud/buy/students.html) subscription
	+ [Gimp](https://www.gimp.org) open source application
	+ [Pixlr](https://pixlr.com) browser-based image editor
* **PDF display software** such as:
	+ [**Adobe Reader**](http://get.adobe.com/reader/)

**Optional Software**

The additional software listed below is often used for Web development. Our cloud-based IDE – Cloud9 – will provide a text editor and file transfer support without any additional software needed.

* **Additional Web browsers** including:
	+ [Mozilla Firefox](https://www.mozilla.org/en-US/firefox/new/)
	+ Apple Safari (Mac OS only)
	+ Microsoft Edge (Windows 10 only)
* **File Transfer Protocol (FTP) software** such as:
	+ [FireFTP](https://addons.mozilla.org/en-US/firefox/addon/fireftp/) add-on for Firefox browser (free)
	+ [Fetch](http://fetchsoftworks.com) (Max OS only)
	+ [WinSCP](https://winscp.net/eng/index.php) (Windows only)

**Important Dates**

**Day Class Begins: Wednesday, January 16, 2019**

Day Class Ends: Friday, May 24, 2019

Last Day to Add without instructor's approval: Sunday, January 20, 2019

Last Day to Drop with refund: Sunday, January 27, 2019

Last Day to Add with instructor's approval: Sunday, February 3, 2019

**Last Day to Drop without a 'W' symbol: Sunday, February 3, 2019**

Last Day to Opt for Pass/No Pass: Sunday, February 24, 2019

**Last Day to Drop with a 'W' symbol: Sunday, April 21, 2019**

**Dropping the Class**

If you decide to discontinue this course, it is your responsibility to officially drop it. A student may be dropped from any class when that student's absences exceed ten percent (10%) of the total hours of class time. It is strongly advised that if you need to miss more than one class/homework deadline in a row that you contact the instructor to avoid being dropped from the class.

**Attendance**

For online courses, students who fail to complete the requirements of the first and second class modules will be dropped by the instructor.

**Pass‐NoPass (P/NP)**

You may take this class P/NP. You must decide before the deadline, and add the option online with TLC or file the P/NP form with Admissions and Records. With a grade of C or better, you will get P.

**You must file for the P/NP option by February 24, 2019.** Once you decide to go for P/NP, you cannot change back to a letter grade. If you are taking this course as part of a certificate program, you can probably still take the class P/NP. Check with a counselor to be sure.

**Instructor Announcements and Q&A Forum**

The instructor will post announcements on the “Instructor Announcements” page in Canvas throughout the semester. Canvas notifies students according to their preferred Notification Preferences.

**Late Policy**

All assignments are due at 11:59pm Pacific time on the Tuesday corresponding to the due date. A late submission will receive a 10% penalty for each week it is late. Submissions more than two weeks late are not accepted without prior written arrangement.

**Exams**

There will be online midterm and final exams. The material comes from the textbooks, class lectures and supplemental materials. If any exam is missed, a zero will be recorded as the score, unless you have made prior written arrangements with me. It is your responsibility to take the exams by the due date.

**Grading Policy**

Click the “Grades” link in Canvas to keep track of your grades. I grade once a week and post grades and comments in the Canvas gradebook.

Grades will be assigned as follows:

|  |  |  |
| --- | --- | --- |
| **A** | 90% - 100% | 900 points or more |
| **B** | 80% - 89% | 800 to 899 points |
| **C** | 70% - 79% | 700 to 799 points |
| **D** | 60% - 69% | 600 to 699 points |
| **F** | 59% or lower | 599 points or less |

If taking Pass/No Pass you need at least 70% of the total class points and to complete the midterm exam and the final exam to pass the class.

**Grading Breakdown**

|  |  |  |
| --- | --- | --- |
| **62%** | 620 points | **Projects + Assignments** |
| **12%** | 120 points | **Discussions + Attendance** |
| **6%** | 60 points | **Quizzes** |
| **10%** | 100 points | **Midterm** |
| **10%** | 100 points | **Final Exam** |
| **100%** | 1000 points | **1000 points possible** |

**Standards of Conduct**

Students who register in SRJC classes are required to abide by the SRJC Student Conduct Standards. Violation of the Standards is basis for referral to the Vice President of Student Services or dismissal from class or from the College. See the [Student Code of Conduct page](https://student-conduct.santarosa.edu/).

Collaborating on or copying of tests or homework in whole or in part will be considered an act of academic dishonesty and result in a grade of 0 for that test or assignment. Students are encouraged to share information and ideas, but not their work. See these links on Plagiarism:
[SRJC Writing Center Lessons on avoiding plagiarism](http://srjcwritingcenter.com/research/plagiarism/plagiarism.html)
[SRJC's statement on Academic Integrity](https://studentlife.santarosa.edu/academic-integrity)

**Special Needs**

Every effort is made to conform to accessibility standards for all instructor-created materials. Students should contact their instructor as soon as possible if they find that they cannot access any course materials. Students with disabilities who believe they need accommodations in this class are encouraged to contact Disability Resources by calling (707) 527-4278 or visit online at [drd.santarosa.edu](https://drd.santarosa.edu).

**Student Health Services**

Santa Rosa Junior College offers extensive health services to students. Visit Student Health Services online at [shs.santarosa.edu](https://shs.santarosa.edu) or call them at (707) 527-4445.

**Course Outline**

|  |  |  |  |
| --- | --- | --- | --- |
| **Start****Date** | **Canvas****Module** | **Topics** | **Assignments** |
| 1/16 | Week 1 | Responsive HTML5 and CSS3 + Review | Hosting Signup SurveyAssignment 1: Syllabus QuizDiscussion 1: Check-in DiscussionReading: "Responsive Web Design*"* |
| 1/23 | Week 2 | Introduction to the Bootstrap Framework:the Responsive Grid | Assignment 2: Bootstrap BasicsReading: online |
| 1/30 | Week 3 | Bootstrap Page Elements + Components | Assignment 3: Human-Centered PageDiscussion 2: Design ThinkingReading: online |
| 2/6 | Week 4 | Bootstrap Navigation | Assignment 4: Responsive NavigationReading: online |
| 2/13 | Week 5 | Bootstrap Forms + Decoration | Assignment 5: Interaction + DecorationDiscussion 3: Interaction DesignReading: online |
| 2/20 | Week 6 | Customizing Bootstrap CSS | Assignment 6: Restyling BootstrapQuiz 1Reading: online |
| 2/27 | Week 7 | Introduction to JavaScript | Assignment 7: First ScriptsDiscussion 4: Agile WorkflowReading: online |
| 3/6 | Week 8 | Bootstrap + JavaScript | Midterm Project: Interactive CatalogReading: online |
| 3/13 | Week 9 | Midterm Review | Midterm ExamDiscussion: Midterm Project Presentations |
| 3/20 | NO CLASS | Spring Break |  |
| 3/27 | Week 10 | WordPress 1: Introduction to CMS | Assignment 8: Setting Up WordPressDiscussion 5: Content Management SystemsReading: *WP Complete,* Chs. 1 + 2 |
| 4/3 | Week 11 | WordPress 2: Posts | Assignment 9: Creating ContentReading: *WP Complete,* Ch. 3 |
| 4/10 | Week 12 | WordPress 3: Pages, Menus + More | Assignment 10: Site BuildingDiscussion 6: Final Student Project ProposalsReading: *WP Complete,* Ch. 4 |
| 4/17 | Week 13 | WordPress 4: Plug-ins, Widgets + Themes | Assignment 11: Extending Your SiteQuiz 2Reading: *WP Complete,* Chs. 5 + 6 |
| 4/24 | Week 14 | WordPress 5: Custom Bootstrap Theme | Assignment 12: Building a Custom ThemeDiscussion 7: Sass + CSS PreprocessorsReading: *WP Complete,* Ch. 8 |
| 5/1 | Week 15 | Introduction to Sass: CSS Preprocessor | Assignment 13: Sass BasicsReading: online |
| 5/8 | Week 16 | Customizing Bootstrap's Sass Rules | Assignment 14: Remixing Bootstrap with SassDiscussion 8: Final Student In-Progress ProjectsReading: online |
| 5/15 | Week 17 | Mastering Sass + BootstrapFinal Review | Final Project: Student-Defined SiteReading: online |
| 5/20Mon | Week 18 | No Regular Class | Final ExamDiscussion: Final Project Presentations |

**Note to online students:** the assignments listed above will become available as modules are released in sequence each week. To view course content, go to **Modules**.