



## **Certificate in HTML5, CSS3 & Responsive Design for Web Development**

### **Web Forms, Javascript, and Responsive Design (200) Syllabus**

#### **Contact Information**

Instructors: Cheri Allen and Jeremy Flores

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#### **Course Description:**

Students learn programming fundamentals in Javascript, and how to use Javascript to make web pages interactive. Core concepts of responsive design are taught, such as mobile first design, fluid layouts, and media queries. HTML and CSS skills are extended to include web forms.

#### **Course Learning Objectives:**

- Javascript programming fundamentals
- Responsive web design concepts and techniques
- Creating, styling, and validating HTML forms

#### **Course Format:**

Lectures will be kept to a minimum in this class. As much as possible, classes will be in the style of a workshop: a technique or concept will be demonstrated, and then you will have time to practice it. Weekly assignments will build upon concepts taught in class. We feel strongly that the best way to learn to code is to do it, and the teacher's role is to facilitate your explorations.

Instructors will be available for office hours, both online and in person as necessary for the duration of the course. Email to make an appointment.

#### **Course Materials:**

Students are expected to do independent research online as necessary. Online articles and tutorials will be suggested.

Head First Javascript Programming, Eric T. Freeman and Elisabeth Robson, 1<sup>st</sup> edition, 978-1449340131  
Responsive Web Design, Ethan Marcotte, 1<sup>st</sup> edition, 978-0984442577

#### **Technical Requirements:**

Students will be required to bring a laptop class if attending in person, or have a computer and fast internet connection if attending remotely. Computers must be running a modern operating system: Windows XP or later, Mac OSX 10.6 or later, a recent (< 3 years old) distribution of Linux.

Students will need regular access to the internet and their email to successfully complete the coursework.



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**Schedule: Topics and Assignments by Date:**

1/12 – Introduction to Javascript

1/19 – Introduction to Responsive Web Design

1/26 – RWD: Flexible Grid

2/2 – JS: First Program, Web Forms

2/9 – JS: Functions

2/16 – RWD: Images

2/23 – RWD: Media Queries

3/2 – JS: Arrays

3/9 – JS: DOM Interaction

3/16 – RWD: Implementation

**Student Assessment:**

Assignments: 8 points each, 80 points total (nine coding assignments, one writing assignment)

Participation (in-class exercises and discussions): 20 points

TOTAL POINTS: 100

Class attendance is critical. Students will not pass if they miss more than two class meetings.

**Policies and Values:**

The classroom is a place of respect and equality. All students' learning needs are equally important. All students' ideas and points of view are valuable. I expect students to behave professionally at all times and to never engage in bullying or harassment.

Attendance at each class is expected. Please let me know via email if you will need to miss a class. You are still responsible for any homework assigned during a class you do not attend.

Weekly homework assignments are due at 8am on Thursdays. Late submissions will be penalized by 25%. All assignments must be turned in by 3/18 for credit toward the course.

This is a collaborative learning environment, and I encourage students to work together. You will also be researching problems and viewing other peoples' code online, as this is how web developers solve problems in the real world. However, copying someone else's code wholesale and submitting it as your own is unacceptable.