

Portland Code School

Winter 2014 Session

Full Stack JavaScript

Hours: 6pm-9pm, Mon/Wed + 1 Saturday per month, 9am-4pm

This course is designed to help students learn how to **build web applications and interactive website features** from scratch using JavaScript as the primary language. Students will learn both front-end and back-end applications of **JavaScript** (including jQuery, BackboneJS, and NodeJS). Every web application needs JavaScript, so it's an extremely powerful language to know, and the demand for JavaScript frameworks such as BackboneJS is only growing.

*NOTE: Students with **NO CODING EXPERIENCE** should consider our Primer course before diving in to Full Stack JavaScript (see the Classes page for technical requirements).*

Students will be provided Treehouse accounts, and will be given access to the classroom from 9am-5pm M-F, as well as some Saturdays, leaving lots of time for independent and group learning. Students will primarily be working and **learning in groups** of 2-4 people.

The Saturdays that are scheduled learning times (1 Saturday each month) will primarily consist of **team building, portfolio development, and other technical areas** (such as Github and Chrome's Developer Tools) to round out the students' curriculum, and broaden their exposure to web development tools.

Integrating oneself into the **Portland tech community** is possibly the single best decision a new student can make. Forging connections and friendships by attending tech meetups and events is the best way to do this. We cannot force you to do this, but we will try (in a loving way :)

PCS hosts and sponsors community events periodically. Some of these will be organized and run by our students.

Another powerful way for web developers to put their best foot forward -- and be extra attractive to employers -- is to contribute to open source projects. We will cover best practices and different ways to make this happen in the latter part of the course.

General Outline (may change slightly each session):

Week 1: JavaScript Basics -- Basic Syntax, Variables + Operators

Week 2: JavaScript Basics -- Loops and Conditionals

Week 3: JavaScript Basics -- Functions and Objects

Week 4: JavaScript Basics -- Inheritance and Scope, and Linting

Week 5: JavaScript -- Writing Tests and TDD

Week 6: JavaScript -- jQuery, Events, and the DOM

Week 7: JavaScript -- Modular Code

Week 8: JavaScript -- JSON

Week 9: JavaScript -- AJAX

Week 10: JavaScript -- BackboneJS

Week 11: JavaScript -- BackboneJS

Week 12: JavaScript -- BackboneJS

Weeks 13-16: Big projects, mentoring new students, interview preparation

NOTE: Saturday lectures and topics are not listed here, as they will be planned based on the students' needs

Technical Areas Covered:

HTML5

CSS3

JavaScript

jQuery

Github

JSON

AJAX

APIs

Debugging

Writing Tests

Web Standards

BackboneJS

NodeJS