

# Intro to Web Design and Development Curriculum

## Class by Class Overview

### Class 1 - Introductions

- Personal introductions
- Curriculum overview
- Introduction to websites
- Introduction to HTML

### Class 2 - Git and Intermediate Basics: The Deep End

- Local vs. remote
- Introduction to the terminal
- Introduction to Git
- git repo setup

### Class 3 - Intro to CSS

- Basic CSS selectors
- Git review

### Class 4 - Intro to CSS Layout

- The box model
- Margin and padding behaviors
- Floating
- CSS Positioning
- More CSS Selectors

### Class 5 - “Real Life” Web Development

- Margin idiosyncrasies
- Converting a mockup to HTML and CSS
- HTML and CSS vertical menu-making 101
- Working from assets
- Background images

### Class 6 - Ruby Basics

- Why is Ruby different from HTML?
- Ruby history
- Programming Basics

- What is programming?
- Variables
- Conditions
- Loops
- Functions
- Objects

### **Class 7 - Ruby Continued**

- Fun with strings
- More Ruby Basics

### **Class 8 - Sinatra**

- Sinatra Review
- Libraries and RubyGems

### **Class 9 - Databases**

- Basic Database theory
- Database types
- Ruby + Databases
- ORMs
- ActiveRecord
- Understanding Relationships

### **Class 10 - HAML**

- HAML/Templating Languages

### **Class 11 - ActiveRecord & Sinatra, Models**

- Hook up ActiveRecord to Sinatra - step by step
- Understanding how ActiveRecord models work
- Setting up a bash profile

### **Class 12 - Heroku & Twitter App**

- Deployment to Heroku
- Start building a basic Twitter app

### **Class 13 - Twitter App**

- Continue building Twitter app

### **Classes 14-18 - JS and JQuery**

- Tech industry title glossary

- What is JavaScript
- Components of Javascript (DOM, BOM, syntax)
- JavaScript Primitives and Objects
- What is JQuery
- Working with JQuery and browser events
- Javascript arrays
- Creating JavaScript objects
- The jQuery object
- methods and properties as an API
- JQuery tasks workshop
- Breaking down front-end problems
- Reading jQuery API docs
- JQuery/JS workshops
- Delegation

### **Classes 19-20 Collaborative Software Development**

- Using git with multiple developers
- git merge/rebase
- Project workshopping

### **Class 21 - Intro to Ruby on Rails**

- Ruby on Rails fundamentals/syntax

### **Class 22 - RoR - To-Do List App**

- Building a To-Do list app in Ruby on Rails

### **Class 23 - RoR - Routing in Depth & Building A User Authentication Model**

- User Authentication Model in Rails
- Collaborative Programming/RoR: Building the Twitter App in Teams

### **Class 24 - RoR - Helper Methods, Form Validation**

- Ruby on Rails Helper Methods
- Form Validation
- Collaborative Programming/RoR: Building the Twitter App in Teams

### **Class 25**

- Non-Model Forms,
- Active Record Callbacks
- The Asset Pipeline

- Collaborative Programming/RoR: Building the Twitter App in Teams

#### **Class 26 - Useful Gems**

- Paperclip
- Devise
- Workshopping / Final Project Brief

#### **Class 27 - Useful Gems**

- CanCan
- Kaminari
- Workshopping

#### **Class 28 - Using Rails UJS**

#### **Class 29-31 Workshopping Final Projects**

#### **Class 32 - Deployment Using Heroku/Workshopping**

#### **Class 32 - Final Presentations**

- Students present their final projects!