

# 6 Week Challenge

## Course Syllabus

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### Part 1: Course Information

#### Instructor Information

**Instructor:** David Rogers  
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#### Course Description

The course will provide students with the foundations of Web Development and Computer Science through a practical approach.

##### Prerequisite

- None

#### Textbook & Course Materials

##### Required Text

- PDFs will be given.

##### Recommended Texts & Other Readings

- The Secrets of the JavaScript Ninja, by *John Resig and Bear Bibeault*
- Harvard CS50
- FreeCodeCamp (<https://freecodecamp.org/>)
- MDN (<https://developer.mozilla.org/en-US/>)
- Devdocs (<https://devdocs.io/>)

#### Course Requirements

- Internet connection (Cable or FiOS desirable)
- A smart phone

#### Course Structure

The course will have two lectures a week, each for 2 hours in length. The 3rd meeting of every week is a Showcase where students will be expected to show the UI and code of the project(s) they made during the week.

Students are expected to spend about 2 hours daily either in class or working on projects, for a total of at least 14 hours a week (168 total course hours).

For group projects or study groups students can meet in the appropriate discord channel.

## **Part 2: Student Learning Outcomes**

- Students will be able to understand the foundations of Web Development.
- Students will be able to understand the foundations of Computer Science.
- Students will have a portfolio with at least 12 projects.

You will meet the objectives listed above through a combination of the following activities in this course:

- Class Attendance
- Project Completion
- External Readings/Videos (provided)

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## **Part 3: Topic Outline/Schedule**

- **Week 01: Orientation & HTML**
  - GitHub setup
  - Discord setup
  - Intro to the Command Line
  - Tips on How to Problem Solve
  - Anatomy of HTML Tags
  - Personal Site Project
- **Week 02: CSS**
  - Anatomy of CSS Syntax
  - Classes and IDs
  - Internal and External CSS
  - Stylized Personal Site Project
- **Week 03: Bootstrap**
  - Installing Bootstrap
  - Wireframing (Basics)

- Carousels
- Project Site
- **Week 04: Intro to JavaScript**
  - ES6
  - Alerts
  - Data Types
  - Variables
  - Naming Conventions
  - String Concatenation
  - String Lengths
  - Basic Arithmetic
  - BMI Calculator Project
  - Personal Project
- **Week 05: Intermediate JavaScript**
  - Control Flow
  - Arrays
  - Loops
  - Fibonacci Challenge
  - Personal Project
- **Week 06: Intermediate JavaScript**
  - The Document Object Model (DOM)
  - Group project