

# Full-Stack Immersion Syllabus

## **Introduction to Programming** - Prep Period

The Redwood Code Academy Prep program is a self-paced, from home program that covers the basic concepts of **HTML**, **CSS** and **JavaScript**. Students will have open access to our staff to answer questions as they prepare for starting the full-time program.

## **Web Development Basics & Front-End Development** - Weeks 1 - 4

The first four weeks of the course will cover **HTML**, **CSS**, **JavaScript (ES6)**, **React** and supporting frameworks like **Redux** and **Bootstrap** to ensure that all students have a solid foundation on what makes the web tick. Students will also work on their first individual CRUD project in order to put all the new skills they've learned into action.

## **Mobile and Cloud Development** - Week 5

During cloud week students will learn how create mobile friendly web applications in the cloud using **AWS** & related technologies like **Lambda & API Gateway**, **DynamoDB**, **S3**, **Cloudfront**, and **Docker**.

## **Back End and Advanced Full-Stack Development** - Weeks 6 - 11

Learn **.NET Core** (including **ASP.NET**), **C#**, **SQL**, **MongoDB**, **Mongoose**, **Entity Framework**, **REST**, and **Web API**. During the back-end part of the curriculum, students will work on individual and group projects. Additional proficiencies that are taught to get students industry-ready: **Agile**, **Scrum**, algorithms, and data structures

## **Full Stack Career** - Week 12

Upon completion of the development curriculum, we prime students to begin their job search. This week is dedicated to preparing and optimizing student resumes, portfolios, GitHub, and LinkedIn profiles. Students will participate in mock phone screens and in-person technical interviews.