

Web Development Professional Syllabus



Contact Info

While going through the program, if you have questions about anything, you can reach us at support@udacity.com. For help from Udacity Mentors and your peers visit the Udacity Classroom.

Nanodegree Program Info

Version: 1.0.0

Length of Program: 49 Days*

** This is a self-paced program and the length is an estimation of total hours the average student may take to complete all required coursework, including lecture and project time. Actual hours may vary.*

Part 1: Introduction to the Program

Part 2: JavaScript & The DOM

In this part, you will build a multi-section landing page. You will learn to dynamically add content to a web page and build a landing page that combines your skills with JavaScript, HTML, and CSS to update and control the page and create a dynamic user experience.

Project: Landing Page

Build a landing page that uses JavaScript to create an interactive navigational experience for the user.

Supporting Lessons

Lesson	Summary
Syntax	With this major update to the JavaScript language, a number of syntax improvements have been added. In this lesson, you'll learn to improve your JavaScript code with these syntax updates.
The Document Object Model	The Document Object Model (DOM) allows developers to interact with and control the rendered page. You'll learn how the DOM is formed, what Nodes and Elements are, and how to select items from the DOM.
Creating Content with JavaScript	Static is boring, so we'll use JavaScript and DOM methods to create new page content, update existing content, and delete content. You'll also learn how to check and set the styling of page elements.
Working with Browser Events	Hundreds of events fire every time you interact with a page. Learn what an event is, how to listen for an event and respond to it, what data is included with an event, and the phases of an event.
Performance	Learn how to measure the code you write to make sure it's performing efficiently and how reflow and repaint affect performance. Learn how to harness the JavaScript Event loop for performance gains.

Part 3: Web APIs and Asynchronous Applications

In this part, you'll apply your new skills to combine data from the OpenWeatherMap API and client side (browser) HTML forms to create a web app that records a weather journal for users. This project requires you to create an asynchronous web app that uses Web API and user data to dynamically update the UI for a Weather Journal App.

Project: Weather Journal App

Apply your new skills they to combine data from the OpenWeatherMap API and client side (browser) HTML forms, to create a web app that records a weather journal for users.

Supporting Lessons

Lesson	Summary
Course Introduction	In this lesson we will introduce the main topics of the course and preview the kind of web app that can be made with the skills developed throughout the following lessons.
Node & Express Environment	In this lesson, students will learn how to setup a Node + Express environment to develop a web application on their local machine.
HTTP Requests & Routes	In this lesson students will learn how to use Express to setup server side routes and execute client side handlers for GET and POST requests.
Asynchronous JavaScript	In this lesson students will learn how to implement asynchronous JavaScript with the Fetch API and Web APIs.

Part 4: Digital Freelancing - Intro

Part 5: Digital Freelancing - Pro

Project: Conquer the freelancing marketplaces

After finishing the intro and pro parts of the freelancing specialty, you need to submit a comprehensive project that tests your awareness and readiness for the freelancing work's basic requirements.

Supporting Lessons

مخطط البرنامج

المنصات التخصصية

ستتعرف على أهمية مواقع المنصات التخصصية مثل Github, Behance, Dribbble, Stack Overflow, Kaggle للاستفادة من تجارب الآخرين و أيضا للترويج لعملك كفري لأنسرفي المكان المناسب.

إنشاء مدونة

إدارة العملاء

عرض العمل (proposal)

مهارات التواصل

التسويق

إدارة المشاريع

الإدارة الذاتية

تطوير المهارات

الإنضمام للوكالات

Part 6: Congratulations and Next Steps



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Generated Mon Sep 14 03:55:29 PDT 2020