

Web Development Mastery: HTML, CSS & JavaScript Fundamentals

Full course syllabus - every module, video lesson, reading and assignment, from how the web works to interactive React components.



Board Infinity

Instructor · Offered on Coursera

3

Modules

24

Video lessons

11

Assignments

2 weeks

At 10 hours a week

INSIDE THE COURSE

01

Introduction to Web Development and User Interfaces

6 hours to complete

02

Advanced HTML and CSS Techniques

4 hours to complete

03

JavaScript and Front-End Frameworks

6 hours to complete

Enroll on Coursera

<https://www.coursera.org/learn/web-development-mastery>

From your first tag to React.

Web Development Mastery is a beginner-friendly path into front-end development, starting with how websites are built and what makes a good user interface.

It moves through semantic HTML5, CSS Flexbox and Bootstrap, JavaScript and the DOM, ES6 and async JavaScript, and React - 24 videos, 8 readings and 11 assignments in all.

WHO IT'S FOR

Complete beginners

Starting from what a web page actually is.

Career switchers

Building the skills entry-level web roles ask for.

Designers moving into code

Turning UI principles into working HTML, CSS and React.

Aspiring full-stack developers

Laying the front-end foundation for back-end work.

WHAT YOU'LL LEARN

01

Understand the web and good UI

Module 1

Evaluate modern web development principles and UI best practices

02

Write semantic HTML

Module 2

Structure pages with HTML5 semantic elements and well-built forms

03

Build responsive layouts

Module 2

Use Flexbox and Bootstrap to build professional-grade pages

04

Make pages interactive

Module 3

Add JavaScript and build interactive React components with state

Three modules, fundamentals to React.

2 weeks to complete at 10 hours a week. Flexible schedule - learn at your own pace.

01

Introduction to Web Development and User Interfaces

6 hours

How the web works, UI design principles, and HTML and CSS basics

8 videos

BY THE END OF THIS MODULE YOU CAN

- ✓ Explain how websites are built, front end and back end
- ✓ Identify the core tools and technologies of web development
- ✓ Apply good UI design principles and common UI patterns
- ✓ Write basic HTML structure and style it with CSS

CONTENTS

8 videos (47 min) · 3 readings (120 min) · 4 assignments (150 min) · 1 discussion (10 min) · 2 plugins (30 min)

TOPICS

Basics of Web Development

Introduction to User Interfaces

HTML and CSS Basics

You'll leave with: a clear picture of how websites are built, and the HTML and CSS basics to start building your own.

02

Advanced HTML and CSS Techniques

4 hours

Semantic HTML, forms, HTML5 elements, Flexbox and Bootstrap

7 videos

BY THE END OF THIS MODULE YOU CAN

- ✓ Structure pages with semantic HTML and HTML5 elements
- ✓ Build HTML forms with the right input types
- ✓ Create responsive layouts with CSS Flexbox
- ✓ Build and customize pages with Bootstrap components

CONTENTS

7 videos (54 min) · 2 readings (90 min) · 3 assignments (120 min)

TOPICS

Advanced HTML

CSS Frameworks

You'll leave with: the layout and framework skills to build responsive, professional-looking pages fast.

03

JavaScript and Front-End Frameworks

JavaScript fundamentals, the DOM, ES6, async JavaScript and React

6 hours

9 videos

BY THE END OF THIS MODULE YOU CAN

- ✓ Write JavaScript with variables, functions and events
- ✓ Manipulate the DOM to make pages interactive
- ✓ Use ES6 features, callbacks, promises and async/await
- ✓ Build React components with props and state

CONTENTS 9 videos (82 min) · 3 readings (120 min) · 4 assignments (150 min) · 1 discussion (10 min) · 1 plugin (15 min)

TOPICS

JavaScript Basics

Advanced JavaScript

Introduction to Front-End Frameworks

You'll leave with: interactive pages powered by JavaScript, and your first React components with state.

The tools that run through the course.



HTML & CSS

Module 1

The structure and style of every web page.

In this course: From basics to semantic HTML5 and forms.



Flexbox & Bootstrap

Module 2

Responsive layouts and ready-made components.

In this course: Using and customizing Bootstrap components.



JavaScript & the DOM

Module 3

Variables, functions, events and DOM manipulation.

In this course: Plus ES6 features and async/await.



React

Module 3

The component framework behind modern interfaces.

In this course: Components, props and state management.

SKILLS YOU LEAVE WITH

Structure & style

- ✓ HTML & CSS
- ✓ Semantic HTML5
- ✓ Responsive design
- ✓ Flexbox & Bootstrap

Interactivity

- ✓ JavaScript
- ✓ DOM manipulation
- ✓ ES6 & async
- ✓ React.js

UI design

- ✓ UI principles
- ✓ UI design patterns
- ✓ UI components
- ✓ Web design

Finish with a shareable certificate.



Add it to LinkedIn

Add this credential to your LinkedIn profile, resume, or CV.



Share it anywhere

Share it on social media and in your performance review.



Earned, not attended

Awarded on completion of the graded quizzes in all three modules.



Course 1 of 3

The first course of the Full-Stack Web Development Specialization.

WHERE THESE SKILLS ARE IN DEMAND

Front-End Developer

Web Developer

Junior React Developer

UI Developer

Web Designer

Junior Full-Stack Developer



Board Infinity

Instructor · Offered on Coursera

Beginner level · Taught in English · 9 languages available · Flexible schedule

Ready to start building for the web?

Enrollment, lessons, grading and the certificate all happen on Coursera.

[Enroll on Coursera](#)

Course page:
coursera.org/learn/web-development-mastery

Want a coach alongside the course?

Board Infinity 1:1 coaching is a separate, optional Board Infinity offering - it is not part of the Coursera course. Details: <https://www.boardinfinity.com/career-coaching/>

Board Infinity is an independent education provider. Coursera and the Coursera logo are trademarks of Coursera, Inc. This independent educational resource is for informational and educational purposes only and is not affiliated with, endorsed by, sponsored by, or officially associated with any company, organization, or certification body unless explicitly stated.