BOARD INFINITY

COURSE 1 OF 3 · END-TO-END WEB DEVELOPMENT SPECIALIZATION

Crafting User Interface - End to End Web Development

Full course syllabus - every module, video lesson, reading and assignment, from HTML and CSS basics to JavaScript, React and the careers beyond.

Board Infinity
Instructor · Offered on Coursera

3	24	11	1 week
Modules	Video lessons	Assignments	At 10 hours a week

INSIDE THE COURSE

01	Introduction to Web Development and User Interfaces	5 hours to complete
02	Advanced HTML and CSS Techniques	4 hours to complete
03	JavaScript and Front-End Frameworks	5 hours to complete

Enroll on Coursera

https://www.coursera.org/learn/crafting-user-interface---end-to-end-web-development

01 ABOUT THE COURSE

From your first web page to React interfaces.

Crafting User Interface - End to End Web Development is the first step in the End-to-End Web Development specialization. Across three modules you learn the fundamentals of HTML, CSS and JavaScript, then move on to responsive design, UI design principles, CSS frameworks and front-end frameworks like React.

Everything is delivered through short video lectures, readings and graded quizzes - 24 videos, 8 readings and 11 assignments in all. No prior coding experience is required, though basic familiarity with HTML and CSS is helpful.

WHO IT'S FOR

Aspiring web developers
Starting out and wanting a structured path into front-end work.

Designers moving into code
Turning UI design principles into working, responsive pages.

Students and career switchers
No prior coding experience is required to begin.

Back-end developers
Adding HTML, CSS, JavaScript and React to their toolkit.

WHAT YOU'LL LEARN

01 **Design user-friendly interfaces** Module 1
Design web interfaces that follow UI design principles, common patterns and best practices

02 **Build responsive pages** Modules 1-2
Use advanced HTML, CSS and JavaScript techniques to build dynamic pages that adapt to any screen

03 **Evaluate UI patterns and frameworks** Modules 1-2
Judge how well UI design patterns and CSS frameworks such as Bootstrap create engaging experiences

04 **Construct apps with React** Module 3
Build web applications with React to manage complex UI states and interactions

02 SYLLABUS

Three modules, one front-end journey.

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

01 Introduction to Web Development and User Interfaces

5 hours · 8 videos

How websites are built, UI design principles, and HTML and CSS basics

BY THE END OF THIS MODULE YOU CAN

- ✓ Explain how web pages are built, front end and back end
- ✓ Identify the essential tools and technologies for web development
- ✓ Apply the principles of good UI design and common UI patterns
- ✓ Structure a page with HTML and style it with CSS

CONTENTS: 8 videos (47 min) · 3 readings (120 min) · 4 assignments (105 min) · 1 plugin (5 min)

TOPICS: Overview of Web Development · Front-End and Back-End · Principles of Good UI Design · Common UI Design Patterns · HTML & CSS · Quick Course Check-In (plugin)

You'll leave with: a clear picture of how websites are built, what makes an interface easy to use, and the HTML and CSS to start building one.

02 Advanced HTML and CSS Techniques

4 hours · 7 videos

Semantic HTML, forms, Flexbox layouts and the Bootstrap framework

BY THE END OF THIS MODULE YOU CAN

- ✓ Write semantic HTML that is cleaner and more accessible
- ✓ Build HTML forms with the right input types and HTML5 elements
- ✓ Create flexible, responsive layouts with CSS Flexbox
- ✓ Use, combine and customize Bootstrap components

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

TOPICS: Semantic HTML · HTML Forms and Input Types · HTML5 New Elements · CSS Flexbox · Bootstrap Components · Customizing Bootstrap

You'll leave with: the techniques to build structured, accessible, responsive pages, and to speed up your design work with a CSS framework.

03

JavaScript and Front-End Frameworks

5 hours

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

9 videos

BY THE END OF THIS MODULE YOU CAN

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

CONTENTS 9 videos (82 min) · 3 readings (120 min) · 4 assignments (105 min)

TOPICS JavaScript Syntax and Variables · Functions and Events · DOM Manipulation · ES6 Features · Async JavaScript · React Components and Props · State Management in React

You'll leave with: the JavaScript to add real interactivity to your pages, and a working knowledge of React for managing complex UI state.

03 TOOLS & SKILLS

The themes that run through the course.

HTML & CSS

Core theme

The building blocks of every web page - structure with HTML, presentation with CSS - and the thread through all three modules.

In this course: Module 1 covers the basics and Module 2 moves on to advanced techniques.

UI design principles

Design

What a user interface is, the principles of good UI design, and the common patterns that make sites intuitive.

In this course: Module 1 grounds every later technique in good design.

Bootstrap & responsive layouts

Frameworks

Semantic HTML, forms, HTML5 elements and Flexbox, plus Bootstrap to build and customize pages faster.

In this course: Module 2 builds pages that adapt to any device and screen size.

JavaScript & React

Interactivity

JavaScript syntax, events and DOM manipulation, ES6 and async code, then React components, props and state.

In this course: Module 3 takes you from your first script to React.

SKILLS YOU LEAVE WITH

Web foundations

- Front-end vs. back-end development
- Web development tools
- HTML & CSS basics
- Semantic, accessible HTML

UI & layout

- UI design principles
- Common UI design patterns
- Responsive layouts with Flexbox
- Bootstrap components

Interactivity

- JavaScript syntax & events
- DOM manipulation
- ES6 & async JavaScript
- React components & state

04 CERTIFICATE & CAREER

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 and assessments in all three modules.

Course 1 of 3
The first course of the End-to-End Web Development Specialization.

ROLES THE COURSE PREPARES YOU FOR

Front-End Developer · UI Developer · Web Developer · React Developer · UI/UX Designer · Junior Full-Stack Developer

Board Infinity
Instructor · Offered on Coursera

Beginner level · Taught in English · 11 languages · Flexible schedule

Ready to build interfaces people enjoy using?

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

Enroll on Coursera

Course page:
coursera.org/learn/crafting-user-interface---end-to-end-web-development

Want a coach alongside the course?

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

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