COURSE SYLLABUS

JavaScript Development Certificate

Learn how to build web apps with JavaScript, one of the most popular programming languages in the world. Develop in-demand skills, including creating dynamic web applications with React and Node.js, working with APIs, and incorporating third-party frameworks and libraries.

> Group classes (Live Online) and onsite training are available for this course. For more information, email onsite@graduateschool.edu or visit: https://www.graduateschool.edu/certificates/javascript-development



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Course Outline

This package includes these courses

- JavaScript Programming Bootcamp (120 Hours)
- JavaScript Development with Node, Express, & MongoDB Course (96 Hours)
- React Development Bootcamp (96 Hours)
- Entering the Web Development Industry Course (24 Hours)

Attend the SQL Bootcamp for free as part of this certificate. Choose your date after you register for the program.

SQL Bootcamp

JavaScript Programming Bootcamp

Learn the fundamentals of JavaScript programming to build interactive web applications.

- Fundamentals of JavaScript programming from the ground up
- Variables, conditional logic (if-else), arrays, objects, and loops
- Modern ES6+ features, including arrow functions, let, and const
- Functions, parameters, arguments, and return values
- Higher-order functions and callbacks
- Array and string methods
- Asynchronous JavaScript with promises and async-await
- APIs (Application Programming Interfaces)
- Parsing and working with JSON (JavaScript Object Notation) data
- OOP (Object-Oriented Programming) and modules
- Coding interview challenge prep
- Projects and portfolio development
- JavaScript libraries

JavaScript Development with Node, Express, & MongoDB Course

Learn how to build and host full-stack web applications using JavaScript with Node.js, Express, and MongoDB.

- Synchronous and Asynchronous JavaScript in Node.js
- The purpose of Node Package Manager (npm)
- The fundamentals of starting an Express.js server
- Integration of MongoDB (a NoSQL database)
- Authentication, server security, and API development

React Development Bootcamp

- The fundamentals of React functionality: components, props, and state
- The lifecycle of React hooks: useEffect, useState, useContext, and more
- One-way data binding and the reusability of React components
- The use of higher-order components (HOC) in React
- Front-end web security
- Deployment to the cloud with AWS and alternate stacks
- The complete cycle of full-stack web development using the MERN stack

Entering the Web Development Industry Course

- Build a professional portfolio
- Practice solving algorithms
- Prepare for technical and behavioral interviews