COURSE SYLLABUS

Software Engineering Certificate

This program is broken into three parts: Front-end Development, React Development, and Django (Python) Development.

> Group classes (NYC) and onsite training are available for this course.
> For more information, email corporate@nobledesktop.com or visit:
> https://www.careercenters.com/certificates/software-engineering-certificate



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Course Outline

This package includes these courses

- Web Development with HTML & CSS (18 Hours)
- Advanced HTML & CSS (18 Hours)
- Flexbox, Grid, & Bootstrap (12 Hours)
- JavaScript for Front-End (18 Hours)
- Front-End Tools & Portfolio (18 Hours)
- JavaScript Programming Bootcamp (18 Hours)
- React Development Bootcamp (96 Hours)
- JavaScript Development with Node, Express, & MongoDB (96 Hours)
- Web Development Industry & Portfolio (24 Hours)
- Python Programming Bootcamp (30 Hours)
- Python for Web Development with Django (60 Hours)

Web Development with HTML & CSS

- Build websites with HTML and CSS
- Create multi-page websites with text, images, and more
- Upload your files using FTP to deploy your site

Advanced HTML & CSS

- Use media queries to create layouts that are responsive (optimized for all screen sizes such as phones, tablets, and desktops)
- Dive deeper into CSS3 selectors and properties for more sophisticated styling
- Learn best practices to write cleaner, optimized CSS code

Flexbox, Grid, & Bootstrap

- Lay out and align webpage content with CSS Flexbox.

- Master CSS Grid and experience an entirely new way to think about laying out webpages.
- Learn how to use and skin Bootstrap (which uses Flexbox) to build out layouts quickly.

JavaScript for Front-End

- Write your own JavaScript to add animation and interactive functionality to your webpages.
- Understand how to use freely available JavaScript frameworks, including the industry standard: jQuery.
- Create animated slideshows with transitions such as fades or slides.
- Build animated image enlargers, show/hide additional content, and more.

Front-End Tools & Portfolio

Learn how to turn a webpage design into fully functional code while mastering essential front-end development tools. This course covers Git, GitHub, Emmet, and Visual Studio Code to streamline coding and collaboration.

- Build a coding portfolio by developing a project from scratch with expert guidance.
- Learn Git fundamentals to track code changes, revert versions, and manage repositories.
- Use GitHub for collaboration, including pushing, pulling, cloning, and handling merge conflicts.
- Master Visual Studio Code shortcuts and features to improve workflow and efficiency.
- Utilize Emmet coding shortcuts to speed up HTML and CSS development.
- Gain hands-on experience in real-world coding workflows and best practices.

JavaScript Programming Bootcamp

Learn the essentials of JavaScript programming to start creating web applications. You'll learn variables, functions, data types, asynchronous JavaScript, and more.

React Development Bootcamp

Build dynamic websites and applications with ReactJS and React Native. In this bootcamp, you'll develop several fully-functioning apps.

JavaScript Development with Node, Express, & MongoDB

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

Web Development Industry & Portfolio

How do you navigate the waters of finding employment as a developer? Where do I start? What do I need to know? What does a typical day look like in the web development industry? Take this course to get your questions answered and build your portfolio.

Python Programming Bootcamp

- Learn the fundamentals of Python programming
- Navigate and analyze tech documentation to solve errors
- Complete independent coding projects

Python for Web Development with Django

Learn the Django framework to develop web applications. You'll learn URL dispatchers, querying models, and automating tasks with Django. Then move on to Django REST (a Django framework) which covers how to work with images, authentication, and using API endpoints.