Course Introduction & Syllabus

Lesson Time: 20 Minutes

Welcome to the SD1101 Frontend Web Development course. In this course you will be learning the basics of HTML5, CSS & Javascript for creating modern & responsive web pages. Additionally, we will cover the basics of how web applications work. We will finish the course by looking at jQuery and Bootstrap technologies.

This course prepares you for the Microsoft MTA 98-375 HTML5 Application Development Fundamentals Certification. You will have the opportunity to take the exam at the end of the program.

To get the most out of this course, we recommend you **dedicate at least five hours per week to review what you learn in class and practice your skills.** Do not miss miss class, and do not fall behind in completing assignments. If you miss a day, you miss alot.

Key Terms
- This section will highlight import terms you should be aware of and their meaning.

Lesson Files

- This section will hold links to any additional files for the lesson.

Additional Resources
- This section will hold valuable links to outside resources and reference material that can help you study.

Further Learning
- This section is not required for you to complete. However, if this lesson grabbed your interest, this section will point to you interesting articles and videos that will challenge you to think deeper about the subject.

What does a web developer do?

Lesson Time: 10 Minutes

Web developers create awesome sites.

They can be responsible for the way a site looks, the technical aspects of the site, and the site's performance. Sometimes, they will create and edit content for the site.

Typical tasks a web developer could do daily include;
- Meeting with clients or managers to discuss the site requirements and design
- Write & test code for the website
- Work with other members of the IT and web development team to complete tasks
- Work with graphic artists to build the layout of a site

Senior web developers will often be involved in the design decisions of building a new site, and make choices about the technologies and tools to use. New developers are typically responsible for smaller changes, minor bug fixes, and testing.

A web developer might work for a company, with a large team of other developers, or work solo or freelance.

Key Terms	None
Lesson Files	None
Additional Resources	None
Further Learning	None

Why students struggle to learn software development

Lesson Time: 10 Minutes

IT CAN SEEM INTIMIDATING.
TOO MUCH MEANLESS TECHNICAL JARGON

Starting your career as a web developer can be daunting. New students don't know where to start. This course is designed to take you from absolute beginner to having the knowledge and skills you'll need in your first job.

Some reasons students have trouble starting out.

- **IT "folks" can be intimidating.** They must be so smart, right!? Web developers are people just like you and me, they are not geniuses. It's easier than ever to build websites thanks to incredible new tools. You can become a web developer if you work hard at it!
- **Technical Jargon.** Developers sound so smart throwing words around like "asynchronous programming". When we look it up, the definition looks like a foriegn language. Here's a secret. A lot of this technical jargon is meaningless or redundant. Technical people are constantly coming up with new jargon for old ideas, and the concept behind a lot of these technical terms is **simple**, even with the definition is long and over-complicated.
- **Not seeing the forest for the trees.** Throughout this course, we are going to focus on the big ideas and the fundamental concepts. Don't feel bad because you don't know how everything works in the smallest details. You wouldn't take a driver's ed course and tell your instructor "I can't learn to drive, I don't know how the engine in my car works!" It's the same idea here, we are teaching you to build a website.

Key Terms	None
Lesson Files	None
Additional Resources	None
Further Learning	None

Getting a job as a web developer

Lesson Time: 20 Minutes

PRACTICE EVERYDAY.

When you are first starting out, there are some things you can do to get noticed and get more experience. Some of the things you should be doing include:

- Showcase your work on a portfolio website, have a digital portfolio
  - https://tobiasahlin.com/
  - https://www.pablostanley.com/
- Do free lance projects for your friends, local community, or on sites like freelancer.com
- Share your work on GitHub.
- Contribute to an Open Source Project
- Participate in a hackathon/coding jam
- Network with other developers
- Follow Tech News
- Obtain Industry certifications. You'll be able to take exams like the Microsoft HTML5 Application Development Fundamentals by the end of the program.
- Practice Job Interview Questions! Seriously, it's one of the best things you can do.

Key Terms	None
Lesson Files	None
Additional Resources	None

Further Learning	None