

Lesson #	Topic	Notes
<b>Week 1:</b>	Intro to programming / Front-End Web Deveopment	
Lesson 1	Intro to programming / command line	High level overview of programming concepts, ecosystem,
Lesson 2	HTML	Fundamentals and structure of HTML
Lesson 3	CSS	Fundamentals of CSS and basic styling
Lesson 4	Twitter Bootstrap and front-end frameworks	Using front-end frameworks like bootstrap for faster web page building
<b>Week 2:</b>	JavaScript Fundamentals	
Lesson 5	Git and Github	Workflow and Collaboration with Git and Github
Lesson 6	JS Variables and Flow Control	JavaScript Introduction and Syntax, basic operation and control flow
Lesson 7	JS Data Structures	JavaScript Data Collections and usage of Objects and Arrays
Lesson 8	JS Functions - Part 1	Function Basics and as functions in objects
<b>Week 3:</b>	Continuing with JavaScript	
Lesson 9	JS Functions - Part 2	Understanding scope, closures, and this
Lesson 10	JS Functions - Part 2	Asynchronous Patterns and Callbacks
Lesson 11	Object Orientation in JS	Working with object oriented concepts in JS - constructors, prototypal inheritance and object composition
Lesson 12	Ajax, REST, Promises	Introduction to APIs and remote data calls
<b>Week 4:</b>		
Lesson 13	ES6 (ES2015) - Part 1	Differentiating between ES5 and ES2015 - New Features
Lesson 14	ES6 (ES2015) - Part 2	New features - Class syntax and models
Lesson 15	DOM API	Working with JavaScript in the Browser and manipulating the DOM
Lesson 16	jQuery	Utilizing the popular JS libray, jQuery to manipulate the DOM
<b>Week 5:</b>		
Lesson 17	JavaScript Application Setup	Overview of Web Application structure and setup
Lesson 18	Node	Working with server side JavaScript and modules
Lesson 19	NPM	Installing, setting up , and working with JS packages and dependencies.
Lesson 20	Build tools	WebPack, Grunt, Bower, Yeoman etc.
<b>Week 6:</b>		
Lesson 21	MongoDB	Understanding Mongo as a DB, managing and querying collections
Lesson 22	SQL	Understanding the difference between NoSQL and SQL based DBs. Basics of SQL management and querying
Lesson 23	Domain Modeling / Express Introduction	Laying out resources and flow of application / Overview of Express framework
Lesson 24	Express - Part 2	Express - MVC and templates, introduction to Jade

<b>Week 7:</b>		
Lesson 25	Express - Part 3	Express - Routes, Requests, and Response
Lesson 26	Angular - Part 1	Angular structure (MVC), templates and views
Lesson 27	Angular - Part 2	Controllers, Scope, and Routing
Lesson 28	Angular - Part 3	Directives, Data Requests, and Services
<b>Week 8:</b>		
Lesson 29	APIs - Part 1	API principles and building your own API.
Lesson 30	APIs - Part 2	Implementing 3rd party APIs
Lesson 31	Testing	Automated testing with JavaScript
Lesson 32	Deployment	Application hosting, deployment, and working in production