



Class Schedule

Week 1: **HTML (course 1)**

Day 1:

- Introduction to the course
- About your instructor
- Course Overview

Day 2:

- Why HTML?
- Intro to HTML?
- Fundamentals: Elements Declaration

Day 3:

- Fundamentals: Nesting Head Tags
- Fundamentals: Body, Div, Styling, & Comments
- Fundamentals: Images

Day 4:

- Fundamentals: Headings & Paragraphs
- Fundamentals: Spans
- Fundamentals: Styling

Day 5:

- Fundamentals: Buttons
- Fundamentals: Hyperlinks
- Fundamentals: Review + Quiz

Week 2: *HTML Continued*

Day 1:

- Tables: Intro
- Tables: Creating a Table
- Tables: Defining Tables

Day 2:

- Tables: Styling Tables
- Tables: Review + Quiz
- Forms: Intro

Day 3:

- Forms: Label & Input Elements
- Forms: Select Element
- Forms: Radio Element

Day 4:

- Forms: Checkbox & Textarea Element
- Forms: Input Type Submit
- Forms: Action Attribute

Day 5:

- Forms: Method Attribute
- Forms: Review + Quiz
- **HTML Certification Call**

Week 3: **CSS (course 2)**

Day 1:

- Intro to CSS
- What is CSS?
- Add CSS to HTML + Quiz

Day 2:

- Type Selectors
- ID Selectors
- Descendant Selectors

Day 3:

- Class Selectors
- Selector Groups + Quiz
- Styling Links

Day 4:

- Font Families
- Pixel Units
- Percentages + Quiz

Day 5:

- Color Values
- Padding and Margins
- Background Images + Quiz

Week 4: **CSS Continued**

Day 1:

- Borders
- Text Line Height
- Styling Lists

Day 2:

- CSS Comments
- Fundamental CSS Concepts
- Recap nad CSS Resources + Quiz
- **CSS Certification Call**

Day 3: **CSS Layout Basics (course 3)**

- IDE Installation: Visual Studio Code
- Intro to CSS Layout
- Project Intro & Setup

Day 4:

- Responsive Design
- Percentages
- Set Width Constraints with max width + Quiz

Day 5:

- EM Unit
- Set EM Padding & Margin
- Rem Unit

Week 5: **CSS Layout Basics Continued**

Day 1:

- Transform Text
- Viewport Units + Quiz
- Media Queries

Day 2:

- Common Breakpoints & Complex Media Queries
- Mobile First Design
- Intro to Flexbox

Day 3:

- Box Sizing - 1
- Box Sizing- 2 + Quiz
- **CSS Layout Basics Certification Call**

Day 4: **JavaScript (course 4)**

- Intro to JavaScript
- Console and Comments
- Values and Variables

Day 5:

- JavaScript Data Types
- Arithmetic and Assignment Operators + Quiz
- Comparison Operators

Week 6: **JavaScript Continued**

Day 1:

- Operator Precedence
- String Concatenation and Template Literals
- If/Else Statement

Day 2:

- Else If Statement
- Switch Statements + Quiz
- Typing Conversion & Coercion

Day 3:

- Truthy or Falsy
- Boolean Logical Operators
- Expressions vs Statements + Quiz

Day 4:

- Conditional Ternary Operator
- Functions
- Array

Day 5:

- Objects
- Loops + Quiz
- **JavaScript Certification Call**

Week 7: **JavaScript & Dom** (course 5)

Day 1:

- Intro to DOM & JS
- Data Tree
- Document Keyword

Day 2:

- Intro to Nodes
- Selecting Nodes
- Create and Append

Day 3:

- Challenge 1
- Nodelist vs Arrays + Quiz
- Styling & Removing

Day 4:

- Create & Render Function & Challenge 2
- Textcontent vs innertext
- Innerhtml & insertadjacent

Day 5:

- Traverse DOM
- Classlist Properties + Quiz
- Events in JS intro

Week 8: JavaScript & Dom Continued

Day 1:

- Events in HTML vs JS
- Event Listener Caveats
- See in Events Obj

Day 2:

- Etargest vs ecurrenttarget
- Event Bubbling
- Use Event Bubbling

Day 3:

- Event stop propagation
- Challenge 3
- JS & DOM Forms Intro

Day 4:

- Recording User Inputs
- Prevent Default
- Challenge 4

Day 5:

- Intro to Local & Session Storage + Quiz
- Set Item Method
- Length & Set Item

Week 9: JavaScript & Dom Continued

Day 1:

- Session storage forms
- Remember selected radio value
- Final Form + Challenge

Day 2:

- Session to local & select tag basics
- Select tag challenge
- Storing objects in storage + Quiz

- JavaScript & Dom Certification Call

Day 3: **GitHub (course 6)**

- Intro to GitHub
- Setup for Git & GitHub
- Command Line Basics

Day 4:

- GitHub Repo Setup
- Git Local Push & Pull + Quiz
- GitHub Working With Git + Quiz

Day 5:

- Develop a New Branch GitFlow + Quiz
- Merge Branches & Pull requests + Quiz
- Add, commit ,Push & Fetch + Quiz

- GitHub Certification Call

Week 10: *Python (course 7)*

Day 1:

- Introduction
- Data Types + Quiz
- Logic + Quiz

Day 2:

- Variables + Quiz
- Control Flow + Quiz
- Fizz Buzz + Quiz

Day 3:

- While Loops + Quiz
- Functions - Part 1 + Quiz
- Functions - Part 2 + Quiz

Day 4:

- Sequences + Quiz
- Lists + Quiz
- Tuples + Quiz

Day 5:

- Range and For + Quiz
- Dictionaries + Quiz
- Classes - 1 + Quiz

Week 11: *Python Continued*

Day 1:

- Modules + Quiz
- Python Standard Library + Quiz
- Classes - 2 + Quiz
- **Python Certification Call**

Day 2: **SQL (course 8)**

- Intro to SQL + Quiz
- Data Types + Quiz
- Relational Table Architecture

Day 3:

- Creating a table + Quiz
- CRUD
- Where

Day 4:

- Common Keywords used with SELECT & WHERE
- Basic Functions + Quiz
- Group By + Quiz

Day 5:

- Joins overview + Quiz
- Inner Join + Quiz
- Left Join + Quiz

Week 12: **SQL Continued**

Day 1:

- Subqueries + Quiz
- Further Reading
- **SQL Certification Call**

Day 2: **Unity Game Development (course 9)**

- Getting Started in Unity
- Using Visual Studio
- Coding in Unity

Day 3:

- Unity Interface
- Animating your character
- **Unity Game Development Certification Call**

Day 4: **JavaScript: Beyond The Basics (course 10)**

- IDE Installation Video: Visual Studio Code
- Overview of the Course & What to Expect
- Introduction to Array Methods- map()

Day 5:

- Array Methods- forEach()
- For...of and for... in Loops + Quiz
- Using filter() and find()

Week 13: **JavaScript: Beyond The Basics Continued**

Day 1:

- Template literals & string interpolation + Quiz
- Spread operator for arrays & objects
- Rest Parameters

Day 2:

- Shorthand syntax for object property/value
- Importing & Exporting modules + Quiz
- Conclusion

- **JavaScript: Beyond The Basics Certification Call**

Day 3: **Object Oriented Programming in JavaScript (course 11)**

- Introduction to the course
- Tips for Success in OOP
- Abstraction in Action

Day 4:

- Pillar: Encapsulation
- Pillar: Inheritance
- Pillar: Polymorphism

Day 5:

- JavaScript Objects: Review
- JavaScript Objects: Access Properties and Methods
- Functions & Arrays as objects + Quiz

Week 14: **Object Oriented Programming in JavaScript Continued**

Day 1:

- Understanding 'this' Keyword- Part 1
- Understanding 'this' Keyword- Part 2
- Understanding Prototypes

Day 2:

- Going Further with Prototypes
- Using the 'new' Keyword
- Constructor Functions

Day 3:

- Going Further with Constructor Functions
- Custom Constructors & Prototypes
- Exploring the 'typeof' Operator

Day 4:

- Introducing the 'instanceof' operator
- 'Instanceof' in Practice
- Constructors & Prototypes + Quiz

Day 5:

- OOP with JavaScript Challenge
- OOP with JavaScript Challenge- Solution
- Methods, Constructors, and Prototypes

Week 15: ***Object Oriented Programming in JavaScript Continued***

Day 1:

- Understanding 'this' Keyword- Part 1
- Understanding 'this' Keyword- Part 2
- Understanding Prototypes

Day 2:

- Going Further with Prototypes
- Using the 'new' Keyword
- Constructor Functions

Day 3:

- Going Further with Constructor Functions
- Custom Constructors & Prototypes
- Exploring the 'typeof' Operator

Day 4:

- Introducing the 'instanceof' operator
- 'Instanceof' in Practice
- Constructors & Prototypes + Quiz

Day 5:

- OOP with JavaScript Challenge
- OOP with JavaScript Challenge- Solution
- Methods, Constructors, and Prototypes

Week 16: *Object Oriented Programming in JavaScript Continued*

Day 1:

- Methods on Prototypes for Built-in Constructors
- Setting Prototypes & Merging Objects
- Introduction to Object.create()

Day 2:

- Dive Deeper into Object.create()
- Using Object.create() with Null Prototype + Quiz
- Assigning Prototypes Challenge

Day 3:

- Assigning Prototypes Challenge- Solution
- Create Private Properties with Object.defineProperty()
- Object.defineProperty()- Object Property Descriptors

Day 4:

- Introduction to ES6 Classes
- Convert a constructor function to a class
- Get to know the 'extends' & 'super' Keywords

Day 5:

- Using 'extends' & 'super' in Classes
- Pre-ES6 inheritance Techniques
- Working with Private fields and getters/setters + Quiz
- **Object Oriented Programming in JavaScript Certification Call**

Week 17: **Asynchronous JavaScript (course 12)**

Day 1:

- Intro to Asynchronous JS
- IDE Setup
- Window Object

Day 2:

- Arrow & Regular Functions
- For vs ForOfLoop
- Callbacks

Day 3:

- Basic Objects & Manipulation
- Review Map & Filter Method
- Async JS - Part 1

Day 4:

- Async JS - Part 2
- Callbacks Are sometime asynchronous + Quiz
- Promise Finally

Day 5:

- Async Await Examples
- Fetch API
- Fetch Options + Quiz

Week 18: *Asynchronous JavaScript continued*

Day 1:

- Fetch Challenge
- IIFES & Uses
- Promises intro

Day 2:

- Handling New Promises
- Callbacks vs Promises + Quiz
- Event Loop

Day 3:

- Asynchronous JS Challenge + Quiz
- Promise All

- **Asynchronous JavaScript Certification Call**

Day 4: **Advanced JavaScript (Course 13)**

- Intro to Advanced JavaScript
- Coding Environment setup & editor
- Concurrency introduction

Day 5:

- Fetch Method- Get File
- JavaScript Data as JSON and JavaScript Objects
- JSON Parse and Stringify Methods

Week 19: **Advanced JavaScript Continued**

Day 1:

- Looping through data in JSON
- Async and Await
- Async and Await Files Catch Errors

Day 2:

- Promise All Javascript
- Web API Connection
- **Advanced JavaScript Certification Call**

Day 3: **API Basics (Course 14)**

- Introduction to API Basics
- Tools & Setup
- Understanding API's

Day 4:

- Making API Requests: 'get'
- Iterating Over the Data
- JSON & Data Formatting + Quiz

Day 5:

- Making API Requests: 'post', 'put', 'delete'
- Passing Parameters & Understanding Headers
- Error Handling with Fetch + Quiz

Week 20: **API Basics Continued**

Day 1:

- Async/Await with API Calls- Part 1
- Async/Await with API calls - Part 2
- NASA API Project

Day 2:

- Set Up Project & Make API Requests
- Adding Additional Features- Part 1
- Adding Additional Features- Part 2

Day 3:

- Best Practices API security + Quiz
- Conclusion
- **API Basics Certification Call**

Day 4: **CSS Flexbox & Grid Layout (Course 15)**

- Introduction to CSS Flexbox & Grid Layout
- CSS Flexbox
- Flexbox Properties

Day 5:

- Aligning in Flexbox + Quiz
- Wrapping Flex Items
- Growing & Sizing Flex Items

Week 21: *CSS Flexbox & Grid Layout Continued*

Day 1:

- Ordering flex items
- Auto Margins + Quiz
- Create a Responsive Navigation Bar with Flexbox

Day 2:

- Build a Responsive pricing table with flexbox
- CSS Grid Layout
- Grid Properties

Day 3:

- Setting the Gap Between Rows & Columns + Quiz
- The Implicit Grid
- Auto Grid Tracks

Day 4:

- Position items by Grid Lines + Quiz
- Grid Template Areas
- Create a Grid Layout

Day 5:

- Combining Flexbox and Grid Layout + Quiz
- Conclusion
- **CSS Flexbox & Grid Layout Certification Call**

Week 22: **Tailwind (Course 16)**

Day 1:

- Intro to Tailwind
- Setup Tailwind
- Tailwinds 3 + Quiz
- Tailwinds 4 + Quiz
- **Tailwind Certification Call**

Day 2: **Hosting and Deploying with GitHub Pages and Netlify (Course 17)**

- Introduction to Hosting and Deploying with GitHub Pages & Netlify
- Understanding the basics
- Deploying with GitHub Pages

Day 3:

- Drag-and-drop deployment with Netlify
- Continuous Deployment with GitHub & Netlify + Quiz
- Protecting your API keys

Day 4:

- Store API keys securely on Netlify with environment variables
- Netlify serverless functions- Part 1
- Netlify serverless functions - Part 2 + Quiz

Day 5:

- Deploy React Apps to Netlify
- Troubleshooting common deployment issues + Quiz
- Best Practices and Tips

Week 23: *Hosting and Deploying with GitHub Pages & Netlify Continued*

Day 1:

- Recap & Conclusion
- **Hosting and Deploying with GitHub Pages & Netlify Certification Call**

Day 2: *Intro to React (Course 18)*

- Intro to React
- What is React?
- Build Modular UI's with Components

Day 3:

- Create a Recipe Component
- Components & Props
- Render components with map() + Quiz

Day 4:

- Build a recipe rating component
- Understanding State
- Updating the DOM

Day 5:

- Conditional Rendering
- Wrapping Up + Quiz
- **Intro to React Certification Call**

Week 24: **Unity VR Game Development (Course 19)**

Day 1:

- VR Intro and Setup
- Setting up your project
- VR Controller

Day 2:

- Completing test setup
- Implementing mechanics
- First Script

Day 3:

- Collisions
- Designing Environments
- Music & SFX

Day 4:

- Modeling VFX
- Adding Elements
- More Reactive Elements

Day 5:

- Importing MRTK
- Conclusion
- **Unity VR Game Development Certification Call**

Week 25: **Getting Started with Gatsby (Course 20)**

Day 1:

- Intro to Gatsby
- What is Gatsby?
- Environment setup

Day 2:

- Project setup
- Gatsby: Summary
- **Getting Started with Gatsby Certification Call**

Day 3: **Level Up React (Course 21)**

- Welcome to Level-Up React
- Modern React Tooling & Setup with Vite
- Diving Deeper into React Core Concepts + Quiz

Day 4:

- State Management in React + Quiz
- Handling Side Effects with useEffect
- Data Fetching in React- Part 1

Day 5:

- Data Fetching in React- Part 2
- Context API and useContext Hook + Quiz
- Optimize Loading Components

Week 26: **Level Up React Continued**

Day 1:

- Rendering Portals with `createPortal()` + Quiz
- Working with Forms in React
- Form Validation

Day 2:

- Compound Components + Quiz
- Course Recap
- **Level Up React Certification Call**

Day 3: **React Router (Course 22)**

- Introduction
- Project Files & Set up
- What is routing?

Day 4:

- Install React Router DOM and Add a Router + Quiz
- Create a Route
- Link to Routes with the `<Link>` Component

Day 5:

- Nested Routing
- Define 404 Routes + Quiz
- Create Dynamic Route switch Placeholders

Week 27: **React Router Continued**

Day 1:

- Using URL Parameters
- Display Active Links
- The useNavigate Hook

Day 2:

- Navigate Programmatically
- Navigate to Specific Recipes + Quiz
- Course Recap
- **React Router Certification Call**

Day 3: **Intro to Generative AI (course 23)**

- Introduction
- OpenAI and the API
- OpenAI Playground & ChatGPT

Day 4:

- Set up API Key and Environment + Quiz
- Prompt Engineering Basics
- Build a Recipe Generator - Part 1
- Build a Recipe Generator - Part 2 + Quiz

Day 5:

- Manage Conversations
- Create a Chatbot
- Temperature Parameter

Week 28: ***Intro to Generative AI continued***

Day 1:

- Frequency and Presence Penalties and Streaming
- Handle Errors and Exceptions + Quiz
- Image Generation with DALL-E Part 1

Day 2:

- Image Generation with DALL-E - Part 2
- Go Further with Prompts
- Understanding Rate Limits, Tokens, and Usage

Day 3:

- Ethical Considerations, Responsible AI Usage, and Safety + Quiz
- Recap and Next Steps
- **Intro to Generative AI Certification Call**

Day 4: ***Career Ready (Course 24)***

- Intro
- Resume Building + Quiz
- Your Job Search Strategy + Quiz
- Harnessing LinkedIn's Power + Quiz
- **Career Ready Certification Call**