



Western Technical College

# 10152124 Intermediate Web Programming

## Course Outcome Summary

### Course Information

<b>Description</b>	This course is an in-depth exploration into web development technologies for programmers who are familiar with HTML, CSS, and JavaScript. The focus of the class is primarily on intermediate and advanced JavaScript topics. HTML, CSS, will be used to design web pages. Various tools, frameworks, and libraries used for web development will also be explored.
<b>Career Cluster</b>	Information Technology
<b>Instructional Level</b>	Associate Degree Courses
<b>Total Credits</b>	3
<b>Total Hours</b>	72

### Pre/Corequisites

Prerequisite 10152144 Web Programming

### Textbooks

No textbook required.

### Course Competencies

#### 1. Explore Modern JavaScript (ES6)

##### Learning Objectives

- 1.a. DOM API
- 1.b. Data Structures (Arrays, Objects, Methods)
- 1.c. Event Handling
- 1.d. Component Based Development
- 1.e. JSON
- 1.f. String API
- 1.g. Date API
- 1.h. Asynchronous Programming

#### 2. Explore CSS

### **Learning Objectives**

- 2.a. Utility Based CSS
- 2.b. CSS Selectors
- 2.c. Responsive Web Development
- 2.d. Page Layout Techniques

## **3. Use Git for Version Control**

### **Learning Objectives**

- 3.a. Basic Git Commands
- 3.b. Ignoring Files
- 3.c. readme files
- 3.d. Resolving Merge Conflicts
- 3.e. Branching

## **4. Use Node Package Manager**

### **Learning Objectives**

- 4.a. The package.json file
- 4.b. Installing Packages
- 4.c. Using Various Packages
- 4.d. Using a task runner

## **5. Explore Libraries and Frameworks for Developing Websites**

### **Learning Objectives**

- 5.a. Axios
- 5.b. Prism
- 5.c. Bootstrap
- 5.d. Charting
- 5.e. Testing

## **6. Explore the Web Platform**

### **Learning Objectives**

- 6.a. Use web server software
- 6.b. HTTP
- 6.c. Doc Root Relative Links
- 6.d. Sub Domains
- 6.e. Understand URLs (protocol, domain, path)