

Course Syllabus Part I

WEB 330 Enterprise JavaScript II

3 Credit Hours

Course Description

This course examines advanced JavaScript techniques in the context of web development. Key topics include object customization, state management, event-driven programming, and asynchronous execution. Projects will involve the use of advanced functions, closures, design patterns, loading strategies, third-party APIs, and AJAX. Asynchronous patterns like Promises and Async/Await along with jQuery are also addressed. GitHub is used to host coding projects.

Course Prerequisites

WEB 231 Enterprise JavaScript I

Course Objectives

Students who successfully complete this course should be able to:

1. Examine advanced JavaScript techniques and identify their appropriate use cases.
 2. Analyze different strategies for managing state information and handling asynchronous execution.
 3. Discover methods for interacting with third-party APIs and compare different approaches to managing data requests.
 4. Develop practical application projects that demonstrate advanced JavaScript skills.
 5. Test for and choose appropriate use cases for modern asynchronous patterns and jQuery in web development.
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Grading Scale

<u>Letter Grade</u>	<u>Percentage Grade</u>	<u>Letter Grade</u>	<u>Percentage Grade</u>
A	≥ 92.5%	C	< 76.5% and ≥ 72.5%
A-	< 92.5% and ≥ 89.5%	C-	< 72.5% and ≥ 69.5%
B+	< 89.5% and ≥ 86.5%	D+	< 69.5% and ≥ 66.5%
B	< 86.5% and ≥ 82.5%	D	< 66.5% and ≥ 62.5%
B-	< 82.5% and ≥ 79.5%	D-	< 62.5% and ≥ 59.5%
C+	< 79.5% and ≥ 76.5%	F	< 59.5%

Topic Outline

- I. Advanced Object Manipulation and State Management
 - A. Creating Customized Objects
 - B. Defining Properties and Methods
 - C. Managing State Information
 - D. Understanding and Using Closures
- II. Event-Driven Programming
 - A. Programming with Events
 - B. Interacting with Third-Party APIs
- III. Asynchronous JavaScript and Modern Patterns
 - A. Understanding Callback Functions
 - B. Managing Data Requests with AJAX and Events
 - C. Working with Promises
 - D. Using Async/Await
- IV. jQuery
 - A. Working with jQuery Selectors
 - B. Handling Events with jQuery
 - C. Exploring jQuery Plugins

This syllabi update reflects grading scale policy updates effective 4/1/2024.