

Course Syllabus Part I

WEB 231 Enterprise JavaScript I

3 Credit Hours

Course Description

Learn JavaScript by writing JavaScript. This course covers the concepts of programming using JavaScript in the Enterprise. Focus is on the JavaScript programming language syntax, software design, coding, documenting, and debugging strategies. Topics include Data Types, Reference Types, Operators, Objects, Control Statements, and Functions. Projects use these topics in an intensive, hands-on format to build enterprise relevant solutions. GitHub is used to host and share coding projects.

Course Prerequisites

WEB 200

Course Skills

- Develop high-quality web application software components throughout the full stack.
 - Employ efficient web analytics tools and techniques to collect, analyze, and report web usage data.
 - Evaluate web application functionality throughout the full stack, using methodologies for test planning and execution, and reporting results to stakeholders.
 - Evaluate software maturity and readiness for promotion through the various development environments.
 - Create productive and professional relationships among team members and stakeholders to encourage trust, advocate a team atmosphere, build consensus, and facilitate communication.
 - Use effective time management and task prioritization techniques to meet obligations to the team and achieve a common purpose.
 - Use principles of ethics and leadership to align team actions while balancing individual and group values and priorities.
 - Use creative thinking and innovative approaches to solve problems and overcome challenges in a development team.
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Course Objectives

Students who successfully complete this course should be able to:

- Identify JavaScript best practices
 - Explain JavaScript's role in modern web browsers
 - Compare the differences between declaration types
 - Demonstrate the use of JavaScript control statements
 - Experiment with JavaScript objects
 - Utilize web browser development tools
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Grading Scale

93 – 100% = A	87 – 89% = B+	77 – 79% = C+	67 – 69% = D+
90 – 92% = A-	83 – 86% = B	73 – 76% = C	63 – 66% = D
	80 – 82% = B-	70 – 72% = C-	60 – 62% = D-
			0 – 59% = F

Topic Outline

- I. JavaScript Fundamentals
 - A. Values
 - B. Types
 - C. Variables
 - D. Control Statements
- II. JavaScript Objects
 - A. Object Literals
 - B. Classes
 - C. Arrays
 - D. Functions
- III. Working with HTML
 - A. Interactive HTML
 - B. Browser Development Tools