

**AUSTIN COMMUNITY COLLEGE
CONTINUING EDUCATION**

JavaScript Programming

(24 hours)

ITSE 6065

COURSE SYLLABUS

Course Description: Covers basic JavaScript scripting features: code placement, events and eventhandlers, methods, functions and parameters, attributes, JavaScript objects, and underlying it all, the document object model. Work with variables, operators, if/then/else control structures, loops, and arrays. Close attention paid to browser type and browser version compatibility, and to JavaScript anomalies and annoyances. **Prerequisites:** Introduction to Programming Languages or prior programming experience; good knowledge of HTML coding or completion of Part II: Intermediate World Wide Web Authoring and XHTML.

Course Objectives: Every student will be able to:

- Use the basic JavaScript syntax
- Demonstrate a solid foundation in JavaScript scripting
- To target JavaScript to work correctly on different browsers
- Use advanced features to collect user information
- Make Web pages interactive

Rationale: JavaScript is a primary tool used by developers or production specialists to add interactivity and programming functionality to a Web site.

Required Materials: None.

Type of Course: Short course

Evaluation: Students will be evaluated on their competency in performing a variety of hands-on exercises created to insure the student has achieved all course objectives throughout the course, and class participation. In order to grant CEU credit for a course the students must be able to complete assessment exercises for each part of the course given by the instructor. The instructor will validate each participant's achievement of the course objectives by signing and awarding individual certificates of completion.

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Course Outline:

Lesson 1 Introduction to JavaScript	.5 hours
Lesson 2 Basuc Javascript: values, variables and control flow	1.5 hours
Lesson 3 Functions	1.5 hours
Lesson 4 Data Structures: Objects and Arrays	1.5 hours
Lesson 5 Error Handling	1.5 hours
Lesson 6 Functional Programming	1.5 hours
Lesson 7 Searching	1.5 hours
Lesson 8 Object Oriented Programming	1.5 hours
Lesson 9 Modularity	1.5 hours
Lesson 10 Regular Expressions	1.5 hours
Lesson 11 Web Programming: A Crash Course	1.5 hours
Lesson 12 The Document Object Model	1.5 hours

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Lesson 13 Browser Events	1.5 hours
Lesson 14 HTTP Requests	1.5 hours
Final Project Coding	4 hours

Student Assessment Checklist:

At the completion of the course each student will be able to:

1. Use the basic JavaScript syntax
2. Demonstrate a solid foundation in JavaScript scripting
3. To target JavaScript to work correctly on different browsers
4. Use advanced features to collect user information
5. Make Web pages interactive