

AUSTIN COMMUNITY COLLEGE

CONTINUING EDUCATION

AJAX

(24 hours)

ITSX 3001

COURSE SYLLABUS

Course Description: Asynchronous JavaScript and XML (AJAX) is a technique that uses the JavaScript-based XMLHttpRequest object to retrieve responses from a web server in a dynamic way, allowing for instant, on page updating. Learn to create dynamic web pages that function more like desktop applications than traditional web pages. **Prerequisites:** Intermediate to World Wide Web Authoring and XHTML and Introduction to JavaScript.

Course Objectives:

Every student will be able to:

- Use the basic JavaScript syntax needed for Ajax scripting
- Demonstrate a solid foundation in Ajax scripting
- Write HTML documents that include asynchronous client/server communication
- Write a final project that demonstrates the use of several Ajax techniques

Rationale:

The huge popularity of Ajax lies in its advanced functionality for the Web user. Applications such as Google Maps successfully blend desktop application features with Web based access, and the need for these advanced Web based applications keeps growing in demand. Almost all Web 2.0 Web sites utilize Ajax techniques to provide a much more advanced and pleasing GUI for Internet users.

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 Ajax	1 hour
Lesson 2 XMLHttpRequest Methods and Properties	2 hours
Lesson 3 JavaScript code for Ajax	3 hours
Lesson 4 Using Ajax for tabbed based interfaces, pagination, RSS display boxes, external page inclusion and interstitial content boxes	4 hours
Lesson 5 Implementing Ajax techniques with a server scripting language	4 hours
Lesson 6 Introduction to Ajax toolkits for rapid development	4 hours
Lesson 7 Final project coding	6 hours

Student Assessment Checklist:

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

1. Use the basic JavaScript syntax needed for Ajax scripting
2. Demonstrate a solid foundation in Ajax scripting
3. Write HTML documents that include asynchronous client/server communication
4. Write a final project that demonstrates the use of several Ajax techniques