

**AUSTIN COMMUNITY COLLEGE
CONTINUING EDUCATION**

**Interactive Websites with jQuery
(16 hours)**

ITSX 3005

COURSE SYLLABUS

I. **Course Description:** Learn how to develop highly interactive web applications with user-friendly jQuery. Create drop down menus, add column sorting to tables, form validation, and more using jQuery plugins. **Prerequisites:** Intermediate WWW Authoring & XHTML, Web Authoring: Using Cascading Style Sheets or equivalent experience. **No programming required.**

II. Developing Interactive Websites is a Breeze with jQuery (No Programming Required)

III. Use jQuery to Spice up your Websites: No Programming Required

IV. Use jQuery to Make your Websites Interactive and User-friendly: No Programming Required

V.

Course Description: You don't have to be a programmer to add lots of bells and whistles to your website. This course shows you how you can make your websites interactive and user-friendly with jQuery. There are hundreds of free jQuery plugins available that you can just plug in to your website. Some examples are drop down menus, sorting columns in tables, form validation, and dragging and dropping. If you're not using jQuery on your websites, you're missing out on one of the best web designer tools available today. When your clients ask "can you do..." you probably can with a jQuery plugin.

Prerequisites:

World Wide Web Authoring & XHTML and CSS

Objectives: Every student will be able to:

- Learn how to call the jQuery library from your web pages.
- Learn to use the jQuery selectors to select items in your webpage.
- Use jQuery to hide and display elements, to animate elements, to change element styling, and to set element content.
- Learn to download and use jQuery plugins.

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Rationale: A few lines of jQuery are often equivalent to ten or more lines of javascript. In addition, thousands of free plugins that have already been tested on multiple browsers are available to just plugin to your websites. Learn to use jQuery so you can make your site much more user-friendly and interactive. For example, it's easy to allow the user to sort tables by one or more columns with a jQuery plugin. Other jQuery plugins let users scroll through photos, use drop down menus, and hide and display content.

Required Book: Check the course description at www.austincc.edu/webcert/ for required books.

Type of Course: Short Course

Recommended Book: *jQuery in Action*, Bear Bibeault, Yehuda Katz, 2008 by Manning Publications Co. ISBN: 1-933988-35-5

Accessing the Course Materials: All of the course information and exercises are on the Blackboard at <http://acconline.austincc.edu>. Log into the Blackboard with your ACCeID and password. If you need help activating your ACCeID, please follow the instructions on this web page: <http://www.austincc.edu/acceid/step1.htm>

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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 the 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.

Course Outline:

- I. Introduction to jQuery** (1 hours)
 - 1. Download jQuery
 - 2. Accessing the jQuery library from your webpage
 - 3. Using jQuery to hide and display page elements.

- II. jQuery Selectors** (4 hours)
 - 1. Creating the wrapped element set
 - 2. Using basic CSS selectors
 - 3. Operators
 - 4. Control structures, iteration
 - 5. Interfacing with HTML forms

- III. System Interaction** (6 hours)
 - 1. Opening, closing, writing to, and reading from data files
 - 2. File locking
 - 3. File upload
 - 4. Executing system commands

- IV. Arrays and Strings** (6 hours)
 - 1. Various array types (numerically indexed, associative, multidimensional)
 - 2. Sorting, reordering, counting and other array manipulations
 - 3. Formatting, joining, splitting, comparing, and other string manipulations
 - 4. Regular expressions

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- V. Advanced Topics** (content may vary based on student interest) (7 hours)
1. Cookies
 2. Security
 3. Database integration

Student Assessment Checklist:

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

1. Describe PHP, it's positioning and usefulness for the web
2. Explain the connection between HTML forms and PHP scripts
3. Write basic PHP scripts using variables, control structures, arrays, strings and file I/O
4. Interface a PHP script with an MySQL database