

## JavaScript Programming I&CSCI X471.04 Spring 2011

### Class Meeting Information

This course meets online from March 28, 2011 to May 22, 2011.

### Instructor Information

Name: Kevin Hanegan  
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Kevin Hanegan is the author of 4 programming books: *Building State-of-the-Art Web Pages*, *Custom CGI Scripting with Perl*, *Practical Guide to Curl*, and *Building Solutions with the DecisionSite Analytics Platform*. He has worked for a variety of software companies, universities, and corporate training centers as a course developer, trainer and consultant. He currently is the Director of Educational Services TIBCO Software.

### Prerequisites

Excellent analytical skills; must enjoy using computers and have a knack for figuring things out on the computer. See enrollment confirmation for login information.

You must have either prior experience with HTML or you are concurrently enrolled in Web Development with HTML (I&C SCI x471.03)

### Course Description

JavaScript is a programming language that allows you to add a significant amount of functionality to what would otherwise be a static web page. You'll learn the fundamentals of event-driven programming, how to implement loops and control structures, and how to add compelling interactive features to your web pages.

### Course Objectives

After you complete this course you will be able to recognize the types of enhancements JavaScript can make to Web pages, write the JavaScript code to swap images that respond to a mouse click, write the JavaScript code to change the style and positioning attributes of Web page elements, write the JavaScript code to dynamically load pages into frames and load new pages into customized windows, and write JavaScript applications for processing and validating user-entered data on Web page forms.

### Course Text or Online Resources

The following book will be used as a reference in the course, but will not be used each week:

JavaScript and Ajax for the Web: Visual QuickStart Guide (7th Edition)  
Publisher: Peachpit Press; 7 edition (October 24, 2008)  
ISBN-10: 0321564081  
ISBN-13: 978-0321564085\  
<http://www.peachpit.com/store/product.aspx?isbn=0321564081>

Course Outline

|                        |  |
|------------------------|--|
| <b>Session 1</b>       | 03/28/11   |
| <b>Topics/Reading</b>  | <ul style="list-style-type: none"> <li>➤ Introduction to JavaScript</li> <li>➤ Variables</li> <li>➤ Operators</li> </ul> |
| <b>Assignments Due</b> | Assignment 1 due on 04/03/11   |
| <b>Session 2</b>       | 04/04/11   |
| <b>Webinar</b>         | 04/06/11 7:00 – 8:00 PM PST  |
| <b>Topics/Reading</b>  | <ul style="list-style-type: none"> <li>➤ Statements</li> <li>➤ Arrays</li> </ul>   |
| <b>Assignments Due</b> | Assignment 2 due on 04/10/11   |
| <b>Session 3</b>       | 04/11/11   |
| <b>Topics/Reading</b>  | ➤ JavaScript Functions   |
| <b>Assignments Due</b> | Assignment 3 due on 04/17/11   |
| <b>Session 4</b>       | 04/18/11   |
| <b>Topics/Reading</b>  | <ul style="list-style-type: none"> <li>➤ Objects</li> <li>➤ Built-in JavaScript Objects</li> </ul>                       |
| <b>Assignments Due</b> | Assignment 4 due on 04/24/11   |
| <b>Session 5</b>       | 04/25/11   |
| <b>Webinar</b>         | 04/27/11 7:00 – 8:00 PM PST  |
| <b>Topics/Reading</b>  | ➤ JavaScript Events  |
| <b>Assignments Due</b> | Assignment 5 due on 05/01/11   |
| <b>Session 6</b>       | 05/02/11   |
| <b>Topics/Reading</b>  | ➤ JavaScript and Windows   |
| <b>Assignments Due</b> | Assignment 6 due on 05/08/11   |
| <b>Session 7</b>       | 05/09/11   |
| <b>Topics/Reading</b>  | <ul style="list-style-type: none"> <li>➤ The Image Object</li> <li>➤ Cookies</li> </ul>                                  |
| <b>Assignments Due</b> | Assignment 7 due on 05/15/11   |
| <b>Session 8</b>       | 05/16/11   |
| <b>Webinar</b>         | 05/18/11 7:00 – 8:00 PM PST  |
| <b>Topics/Reading</b>  | <ul style="list-style-type: none"> <li>➤ Form Validation</li> <li>➤ AJAX Introduction</li> </ul>                         |
| <b>Assignments Due</b> | Assignment 8 due on 05/22/11   |

## Evaluation and Grading

In this course, you will be evaluated in the following way:

|   |                      |
|---|----------------------|
| <b>Individual Assignments</b>             | 80% (10 points each) |
| <b>Participation in class discussions</b> | 20%                  |
| <b>Total</b>                              | 100%                 |

There are assignments each week, as well as a language forum, for a total of 180 points by the end of the course.

Unexcused late assignments are penalized 50% off. Assignments are spaced one week apart and are due on Sunday midnight PST.

## Grading Scale

- A = 90% – 100%
- B = 80% – 89%
- C = 70% – 79%
- D = 60% – 69%

## Types of Communication

In an online course, the majority of our communication takes place in the course forums. We also have 3 1 hour webinars scheduled where we can communicate synchronously. In addition, when we have a need for communication that is private, whether personal, interpersonal, or professional, we will use individual email.

## Code of Conduct

All participants in the course are bound by the University of California Code of Conduct, found at <http://www.ucop.edu/ucophome/coordrev/ucpolicies/aos/uc100.html>.

## Netiquette

In an online classroom, our primary means of communication is written. The written language has many advantages: more opportunity for reasoned thought, more ability to go in-depth, and more time to think through an issue before posting a comment. However, written communication also has certain disadvantages, such a lack of the face-to-face signaling that occurs through body language, intonation, pausing, facial expressions, and gestures. As a result, please be aware of the possibility of miscommunication and compose your comments in a positive, supportive, and constructive manner.

## Course Policies

Expectations of students

I expect you to

- Participate actively, constructively, and politely in the course forum
- Submit all assignments by the time and date indicated
- Notify me as soon as possible if you have an emergency or need more time for an assignment (Late assignments will be granted within a time frame of up to one week / 7 days from receipt of notification.)

#### Expectations of the instructor

You can expect me to

- Review all the course content, materials, assignments, and forum prompts prior to the start of the class
- Post my syllabus to the class prior to start
- Post my welcome message prior to start
- Be online every day during the course
- Respond to individual email within 24 hours
- Give you individual feedback on your posted assignments within 48 hours of the due date
- Enjoy the experience!