



UNIVERSITY OF
SOUTH FLORIDA

SARASOTA-MANATEE

Information Technology, Security and Informatics

CGS 3850 – Web Development: JavaScript

**Spring 2012
3 Credit Hours**

University of South Florida – Sarasota/Manatee
8350 North Tamiami Trail, Sarasota, FL 34243

University of South Florida – Sarasota/Manatee
Course Syllabus – Spring 2012
(Revised: 01/05/12)

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- Course Number:** CGS 3850
- Course Name:** Web Development - JavaScript
- Course Description:** This course introduces the JavaScript client-side scripting language for making Web pages dynamic by manipulating the Document Object Model and changing the appearance of the page.
- Instructor:** Dr. John Wiginton
e-mail: cg3850.usfsmc@gmail.com. This is the course-specific e-mail address to be used for all contact concerning this course, and for submitting assignments.
- Required Materials:** Don Gosselin, *JavaScript 5th edition*. Course Technology, 2010 ISBN-13: 978-0-538-74887-2.
- Suggested Supplementary Materials:** Terry McNavage, *JavaScript for Absolute Beginners*. Apress, 2010 ISBN-13: 978-1-4302-7219-9
- Douglas Crockford, *JavaScript: The Good Parts*. O'Reilly, 2009 ISBN-13: 978-0-5965-1774-8.
- David Sawyer McFarland, *JavaScript and jQuery: The Missing Manual*. O'Reilly, 2011 ISBN-13: 978-1-4493-9902-3
- Prerequisites:** CGS 3853 – Web Design.
- Course Goals:** JavaScript is one of the three pillars of Web Design/Development along with HTML and Cascading Style Sheets (CSS). These *languages* are the three “layers” of a Web page. HTML provides the *structural* layer, organizing *content* in a meaningful way; CSS provides the *presentational* layer, applying *style* the content; and JavaScript adds a *behavioral* layer, bringing a Web page to life so that it interacts with Web visitors.
- JavaScript is also the basis for some other very useful tools such as the jQuery library (and other libraries) and

AJAX, so it is absolutely essential that a Web developer be knowledgeable and skilled in the uses and application of JavaScript. This will become even more the case as adoption of HTML5 grows.

Performance Objectives: This course provides comprehensive instruction to concepts of JavaScript programming, teaching students to apply JavaScript to create real-world applications.

Attendance Policy: For Spring semester 2012, this course will meet Thursday evenings from 6:00 to 8:50 and will be conducted entirely on line using Elluminate. Logging in to our scheduled on line meeting constitutes “attendance.”

Submission of Assignments: Assignments will be submitted weekly. All assignments are due no later than 6:00 p.m. on the due date. They must be emailed to the course-specific email address cgs3850.usfsmc@gmail.com, and *only* to this email address. Submitting them via email provides a date and time stamp as proof of timely transmission.

Late assignments will not be accepted unless prior permission has been granted by your Instructor. Otherwise, don't even think of submitting them past the deadline. They will not be accepted.

Performance Evaluation and Grading

The total score on your twelve (12) best assignments will be the score used to determine your final grade as follows: A 90-100; B 80-89; C 70-79; D 60-69; F 0-59.

Class Schedule – Spring 2012:
 (Revised 01/13/12):

Date	Topic
Week 1 (01/12/12)	Course Introduction and Overview Readings: Gosselin5e – Chapter 1, “Introduction to JavaScript”
Week 2 (01/19/12)	Readings: Gosselin5e – Chapter 1, “Introduction to JavaScript” (continued)
Week 3 (01/26/12)	Readings: Gosselin5e – Chapter 2, “Working with Functions, Data Types, and Operators”
Week 4 (02/02/12)	Readings: Gosselin5e – Chapter 3, “Building Arrays and Control Structures”
Week 5 (02/09/12)	Readings: Gosselin5e – Chapter 4, “Manipulating the Browser Object Model”
Week 6 (02/16/12)	Readings: Gosselin5e – Chapter 5, “Validating Form Data with JavaScript”
Week 7 (02/23/12)	Readings: Gosselin5e – Chapter 6, “Using Object-Oriented JavaScript” Use the revised version of Chapter 6, distributed to you as a PDF file (in the Blackboard “Course Documents” folder).
Week 8 (03/01/12)	Readings: Gosselin5e – Chapter 7, “Manipulating Data in Strings and Arrays”
Week 9 (03/08/12)	Readings: Gosselin5e – Chapter 8, “Debugging and Error Handling”

(03/11/12)- (03/17/12)	Spring Break
Week 10 (03/22/12)	Readings: Gosselin5e – Chapter 9, “Managing State Information and Security”
Week 11 (03/29/12)	Readings: Gosselin5e – Chapter 10, “Introduction to the Document Object Model (DOM)”
Week 12 (04/05/12)	Readings: Gosselin5e – Chapter 11, “Creating Dynamic HTML (DHTML)”
Week 13 (04/12/12)	Readings: Gosselin5e – Chapter 12, “Updating Web Pages with AJAX”
Week 14 (04/19/12)	Readings: Gosselin5e – Chapter 12, “Updating Web Pages with AJAX” (continued)
Week 15 (04/26/12)	Course Wrap-up and Evaluation