MMC 6936 - Advanced Web Topics II

Instructor: Chris Allen Lane, ZCE

Email: chris@chris-allen-lane.com
Phone: (352) 872-9240
Twitter: twitter.com/chrisallenlane
Web: chris-allen-lane.com

What You Will Learn

This class will bring you up-to-speed on the concept of the semantic web, the features of HTML5 and CSS3 that you may use professionally today, and the concept of "progressive enhancement". It will also explore, in depth, JavaScript, the integration of third-party APIs, jQuery, and some of the essential jQuery plugins.

Class Format

Each class will be two hours long, and will typically consist of a lecture, a discussion, and some in-class programming, either singularly or in groups. Students will frequently review each others' code in class as well.

Expectations

Expectations for the class are straightforward. Students are expected to:

- Attend class regularly and on-time
- Participate in discussions, pair-programming exercises, and code reviews
- Complete required reading before class
- Complete assignments on-time

Course Policies

1. Lateness, early departure, repeated absences, and failure to particpate in class activities/discussions may result in a reduction of your final participation grade.

2. Required reading must be completed before class.

3. Class assignments are to be completed by the posted due dates. Late work will be subject to a 15% grade reduction per day.

Requirements for class attendance and make-up exams, assignments, and other work are consistent with University policies that can be found at: https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx

Recommended Books

No text books are required for this course. However, I recommend the following as supplemental reading:

- MacDonald, Matthew. *HTML5: The Missing Manual*. O'Reilly, 2011.

- Crockford, Douglas. *JavaScript: The Good Parts*. O'Reilly, 2008.

- Lindley, Cody. *jQuery Cookbook: Solutions & Examples for jQuery Developers*. O'Reilly, 2009.

- Soulders, Stever. *High Performance Websites: Essential Knowledge for Frontend Engineers*. O'Reilly, 2007.

Note that many of the above are available cheaply on amazon.com as either used paperbacks or Kindle editions.

Projects and Weekly Assignments

Because programming is best learned by doing, this course will place a strong emphasis on actually writing code. As such, at least one programming project will be assigned per week, in addition to the work we do together in class. In some cases, students may be allowed to choose from multiple projects of a theme, in order to allow latitude to pursue interest and specialization.

Beyond that, students will be tasked with three major projects:

Project 1 - Progressive Enhancements and the Semantic Web
Project 2 - JavaScript and Third-Party APIs
Project 3 - Cumulative

Class Discussion and Code Reviews

A substantial amount of time will be spent in class "pair programming" and conducting peer code-reviews. The goal of these exercises are three-fold:

1. To demonstrate to students that there may be numerous correct ways to solve a given programming problem

2. To acclimate students to reading and working with others' code

3. To acclimate students to functioning as part of a development team

Participation in these activities will contribute substantially toward a student's participation grade.

Grade Breakdown

Homework : 25%
Participation : 25%
Project 1 : 12.5%
Project 2 : 12.5%
Final Project : 25%

Grading

The following grading scale will be used:

A = 93-100
A- = 90-92
B+ = 87-89
B = 83-86
B- = 80-82
C+ = 77-79
C = 73-76
C- = 70-72
D+ = 67-69
D = 63-66
D- = 60-63
E = 0-59

University Policy on Accommodating Students with Disabilities

Students requesting class accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the students, who must then provide this documentation to the Instructor when requesting accommodation. You must submit this documentation prior to submitting assignments or taking the quizzes or exams. Accommodations are not retroactive, therefore, students should contact the office as soon as possible

in the term for which they are seeking accommodations. For more information about the Dean of Students Office, please visit: http://www.dso.ufl.edu/

University Policy on Academic Misconduct

Academic honesty and integrity are fundamental values of the University community. Students should be sure that they understand the UF Student Honor Code at http://www.dso.ufl.edu/students.php.

Getting Help

For issues with technical difficulties for E-learning in Sakai, please contact the UF Help Desk at:

Learning-support@ufl.edu
(352) 392-HELP - select option 2
https://lss.at.ufl.edu/help.shtml

Other resources are available at http://www.distance.ufl.edu/getting-help for:

- Counseling and Wellness resources
- Disability resources
- Resources for handling student concerns and complaints
- Library Help Desk support

Should you have any complaints with your experience in this course please visit http://www.distance.ufl.edu/student-complaints to submit a complaint.

Tentative Schedule

Weeks 1 - 5

In weeks 1 - 5, we'll explore HTML5, CSS3, and Responsive Design. We'll also take a look at some helpful development tools.

Weeks 6 - 10

In weeks 6 - 10, we'll recap JavaScript fundamentals, and then move on into advanced JavaScript. We'll also become acquainted with jQuery, and working with third-party APIs and services.

Weeks 11 - 15

In the final weeks of class, we'll continue to pursue mastery of JavaScript and jQuery, as well as tie together everything we've learned thus far.