CS 2350 - Web Development using XHTML, HTML 5/CSS3, JavaScript, and J-Query
(Spring 2016 - Online Version)

General Information

Instructor: Richard C. Fry, PhD, Associate Professor of Computer Science
Instructor Office Hours Online (via Google Hangouts): rich@richfry.com - By Appointment
Email: rich@richfry.com (direct/fastest response) or rfry@weber.edu (forwarded)
PLEASE DO NOT USE THE CANVAS MESSAGING SYSTEM – I DO NOT ALWAYS SEE IT!

15 Week (Jan 9 – Apr 22) Course Website: http://canvas.weber.edu

Course Description

This course teaches skill development in web page programming including markup and scripting languages. Focus is on user interface and object oriented programming design. Students use XHTML, Cascading Style Sheets (CSS), HTML 5, JavaScript, and JQuery to design and implement interactive web pages. Hands-on assignments allow students to experience each topic discussed.

Course Objectives

Upon successful completion of this course, the student shall be able to demonstrate the following skills:

- Create a basic web XHTML 1.1 or HTML5 webpage that validates to W3C standards.
- Create a basic web page that uses cascading style sheets (CSS) – both external and embedded styles as well as the new CSS3 standards.
- Create a basic web page using with interactive forms and client side dynamic functionality.
- Demonstrate a working knowledge of JavaScript including the use of conditional statements, arrays, loops, and navigating the Document Object Model (DOM) Hierarchy.
- Create a basic web page implementing JQuery and JQuery Mobile (responsive design) widgets, effects, and theming.
- Create a client side web site with multiple pages linked together.

Relationship of Course to Weber State University's Computer Science Program Objectives

This course supports the achievement of the following ABET Accreditation program objectives:

- An ability to apply knowledge of math, science, and engineering.
- An ability to design and implement programs as well as to analyze and interpret code and data.
- An ability to design a system, component, or process to meet desired needs.
- An ability to identify, formulate, and solve computing problems.
- An ability to communicate effectively.
- The broad education necessary to understand the impact of computing solutions in a global and societal context.
- A knowledge of contemporary issues.
- An ability to use the techniques, skills, and modern computing tools necessary for computing practice.
Accommodations

Any student requiring accommodations or services due to a disability must contact Services for Students with Disabilities (SSD) in room 181 of the Student Services Center. SSD can also arrange to provide course materials (including this syllabus) in alternative formats if necessary.

Textbook & Required Materials

*Beginning HTML, XHTML, CSS, and JavaScript*
Jon Duckett

*ISBN: 9780470540701*

Note: *This book is primarily for reference of core concepts only. It does not cover everything in the class.* Consequently, a lot of material related to web programming can be found freely on the web. In addition to the book and web resources, I will provide thorough video tutorials for each module as well as supplemental web links and readings to better understand the material and accomplish your assignments.

You’ll also need the following items:

- **An HTML Text (only) Editor:** You can get by with a simple text editor like WordPad or Notepad, but it will be very painful to edit the number of programs required in this course. I recommend [HTML Kit](https://www.html-kit.com/) or [Notepad++](http://notepad-plus-plus.org/) (for windows). There are very few free options for Mac (but if you have a recommendation, then post it on our discussion forum). **Note:** Use of WYSIWYG web-creation software, such as Microsoft Web Expression or Adobe Dreamweaver, is not permitted unless explicitly approved by the instructor. Any work done with the aid of such “drop and drag” software will result in a zero for that assignment. Be warned that pages created with web-development software are easily identified. If in doubt, ask first!

- **A Web Host Provider:** Either your own web host provider or an account on Weber State Computer Science Department’s [Icarus Server](https://icarus.weber.edu/). A student account should have already been set up for you, if you registered for class before January 4, 2016. If not, we’ll set one up for you the first week, and provide directions to everyone during the first week of class. Under no circumstances should you share URL addresses with others in the class in order to prevent copying of materials (see cheating policy below).

Cheating and Plagiarism Policy

Although cheating has many forms, I generally consider cheating to be any attempt to claim someone else's work as your own. Any assistance provided and/or received on problem solving or programming assignments without being publically posted on our course discussion forum (so I know about it) is considered cheating...because I always assume you are doing your own original work. **Also, any possession of materials from previous semesters is considered “cheating”**. You are encouraged to assist other students whenever possible or cite internet website resources that provide help, but this help must be transparent, and posted via the discussion forum so everyone gets the same information. If you have any questions about this policy, please ask me.

**WARNING:** CS Department policy dictates that any verifiable evidence of student academic cheating, as defined and determined by the instructor above, will result in: 1) an automatic failing grade for the class and 2) a report to the Dean of Students that will include a detailed description of the student's dishonest conduct.
Discussion Forum and Virtual Office

Due to the large number of students in this on-line course, students are strongly encouraged to use the discussion forum to provide assistance to one another on assignments or any material related to the course. When posting a question, please mark the subject clearly with the Assignment #, to facilitate searching and organization. Posting guidance and hints to this public forum is NOT considered a violation of the cheating policy, unless you blatantly post full solutions to an assignment or the public URL address to your website.

If a student has sincerely tried to find answers on their own, but is still struggling with an assignment or concept (and has not waited until the day before the assignment is due) I am more than willing to do a virtual help session via Adobe Connect, to provide one-on-one assistance. E-mail me that request with some proposed times you can meet.

Assignment Due Dates

My Online Class calendar week runs from SATURDAY to FRIDAY – providing you AT LEAST 7 days between new material being presented, and AT LEAST 14 days (including a weekend) to adequately complete assignments. However, the longer you wait to start each weeks’ material, the more overlap you’ll have – resulting in less time (and more stress) in completing assignments. To prevent overlap, I strongly suggest WORKING ONE WEEK AHEAD (pretending the due date is one week sooner). See example on next page. On the other hand, I find procrastinators who wait until the last couple of days to start learning (or an assignment), often encounter an emergency situation the last minute, and do not have enough time to adequately finish the work. You’ve been warned. Again, please work ahead!!

ONLINE COURSES MAY LEAD TO OVERLAP IN MATERIAL IF YOU ARE A PROCRASTINATOR AND WAIT UNTIL THE LAST DAY TO TURN IN AN ASSIGNMENT. PLEASE ALLOW YOURSELF ADEQUATE TIME BY ALWAYS STARTING ON SATURDAY.

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All Assignment due dates are clearly posted several weeks in advance. The posted due date (normally 11:59PM MST on a FRIDAY – easy to remember “FRY”day at midnight) is the absolute latest you can turn in an assignment for full potential credit. I will not accept late work for full credit under any circumstances (even emergencies). Late assignments are my pet peeve and are penalized 10% (1 minute to 12 hours late), 25% (13-24 hours late), 50% (25-48 hours late), 75% (49-72 hours) late, and not accepted after 3 days late. Again, with 40+ students in this class alone, I cannot afford to accept late work. No excuses. Do not procrastinate, and plan for contingencies. If you are a procrastinator, then I suggest you give yourself a deadline of a week earlier to give yourself even more cushion. Remember - no exceptions.
Grading Criteria

- 14 Weekly Assignments - worth 60% of your final grade
- 3 “Creative” Web Projects (multiple pages) you will build from scratch – worth 30% of your final grade
- 2 Multiple Choice Exams (graded on a curve) – worth 10% of your final grade

94-100 = A, 90-93 = A-, 88-89 = B+, 83-87 = B, 80-82 = B-, 78-79 = C+, 72-77 = C (minimum passing grade)

Complaining About Grades

I recognize and encourage a student's sacred right to complain about their grade. There are, however, a few rules under which such complaining should take place, and those students who don't follow the rules will be less successful in their complaints than those students who do follow the rules.

First, the only complaint that matters is that something got marked wrong when it was actually right. When you come to complain, be prepared to present, in explicit detail, what it is you did and why you think it is correct.

Second, complaints about a particular Assignment are only valid up to one week after the grade is assigned.

Calendar and Due Dates (TENTATIVE – SUBJECT TO CHANGE!! ALWAYS VIEW THE LIVE CALENDAR FOR DETAILS)

- **Jan 9-15**: XHTML Markup and Validation.
  Assignment 1: Due NO LATER THAN Friday, Jan 22nd.
- **Jan 16-22**: Website Storyboarding. XHTML Images and Hyperlinks.
  Assignment 2: Due NO LATER THAN Friday, Jan 29th.
- **Jan 23-29**: Project 1 (XHTML) - Due NO LATER THAN Friday, Feb 5th.
- **Jan 30-Feb 5**: CSS Styling.
  Assignment 3: Due NO LATER THAN Friday, Feb 12th.
- **Feb 6-12**: CSS Layouts and Effects.
  Assignment 4: Due NO LATER THAN Friday, Feb 19th.
- **Feb 13-19**: XHTML Tables and Forms.
  Assignment 5: Due NO LATER THAN Friday, Feb 26th.
- **Feb 20-26**: HTML 5 / CSS 3.
  Assignment 6: Due NO LATER THAN Friday, March 4th.
- **Feb 27-Mar 4**: Project 2 (XHTML/CSS) - Due NO LATER THAN Friday, Mar 18th.
  MID-TERM EXAM (Material to Date): Take NO LATER THAN Friday, Mar 18th.
- **Mar 5-11**: SPRING BREAK
- **Mar 12-18**: JavaScript 1.
  Assignment 7: Due NO LATER THAN Friday, Mar 25th.
- **Mar 19-25**: JavaScript 2.
  Assignment 8: Due NO LATER THAN Friday, April 1st.
- **Mar 26-Apr 1**: J-Query.
  Assignment 9: Due NO LATER THAN Friday, April 8th.
- **Apr 2-8**: J-Query 2.
  Assignment 10: Due NO LATER THAN Friday, April 15th.
  FINAL EXAM (Material to Date): Take NO LATER THAN Friday, April 22nd.
- **Apr 9-15**: Project 3 (XHTML/CSS/JavaScript/J-Query). Due NO LATER THAN Friday, April 22nd.
- **Apr 15-22**: Work on Final Project. Due NO LATER THAN Friday, April 22nd.

Last Updated 5 January 2016
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