Interactive Web Development
ITP 301 (4 Units)

Spring 2016
Section 31824R, 31825R

Objective
This course is intended to teach the basic programming tools and development techniques needed to create interactive web pages. The class will stress programming fundamentals using JavaScript and how to work with the jQuery library.

Skills
Advanced HTML, dynamic HTML and CSS. Fundamentals of jQuery, scripting and object-oriented programming, and Javascript.

Prerequisites
ITP 104 or working intermediate knowledge of HTML and CSS.

Instructor
Zune Nguyen
tridungn@usc.edu

Office Hours
TBA

Lab Assistants
Brandon Huang (huangbra@usc.edu)

Lecture / Lab
Tuesdays & Thursdays 5:00 – 7:50 PM, WPH B36

Website
http://uscitp.com/spring-2016/itp-301-5pm/

Textbook

Grading
Grading will be based on lecture attendance, lab completion and participation, completed assignments and projects, midterm grades, and a major individual project.
Final grades will be determined as follows:

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quizzes, Assignments, and Projects</td>
<td>30%</td>
</tr>
<tr>
<td>Participation, Attendance, Labs</td>
<td>15%</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>20%</td>
</tr>
<tr>
<td>Final Project</td>
<td>35%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>

**Grading Scale**
The following shows the grading scale to be used to determine the letter grade.

- 93% and above: A
- 90% - 92%: A-
- 87% - 89%: B+
- 83% - 86%: B
- 80% - 82%: B-
- 77% - 79%: C+
- 73% - 76%: C
- 70% - 72%: C-
- 67% - 69%: D+
- 63% - 66%: D
- 62% and below: F

**Policies**
Students are expected to:

- Attend and participate in lecture discussions and critiques
- Attend and complete weekly lab quizzes, assignments and projects
- Manage and complete individual class projects.

Students are responsible for completing assignments and projects by stated deadlines. Most assignments will be uploaded by students to their USC Web space and linked from a class assignment page.

It is the responsibility of the student to make sure projects and assignment are turned in on time. Make sure you follow the procedures outlined in each assignment or project. Each student will maintain their own assignment page with links to all completed work in the course.

Late projects will receive 10% penalty per late day. No projects will be accepted later than one week from the due date. It is the responsibility of the student to contact the grader when posting late projects.
No make-up exams (except for documented medical or family emergencies) will be offered nor will there be any changes made to the Final Exam schedule.

You are required to save your labs using a USB flash drive or a website such as http://www.dropbox.com. You must keep a copy of all labs. You will not be able to save your work on the ITP lab computers. If available, you will be given one USB flash drive from ITP.

ITP will have open lab hours starting the second week of the semester. The open labs will not have a lab assistant for this specific class. These lab times are there in case you need extra time to complete a lab.

A roster will be passed around the room during each lecture session. Please sign-in for the appropriate week.

**Incomplete and Missing Grades**

Excerpts for this section have been taken from the University Grading Handbook, located at http://www.usc.edu/dept/ARR/grades/gradinghandbook/index.html. Please see the link for more details on this and any other grading concerns.

A grade of Missing Grade (MG) “should only be assigned in unique or unusual situations… for those cases in which a student does not complete work for the course before the semester ends. All missing grades must be resolved by the instructor through the Correction of Grade Process. One calendar year is allowed to resolve a MG. If an MG is not resolved [within] one year the grade is changed to [Unofficial Withdrawal] UW and will be calculated into the grade point average a zero grade points.

A grade of Incomplete (IN) “is assigned when work is no completed because of documented illness or other ‘emergency’ occurring after the twelfth week of the semester (or 12th week equivalency for any course scheduled for less than 15 weeks).”
Academic Integrity

USC seeks to maintain an optimal learning environment. General principles of academic honesty include the concept of respect for the intellectual property of others, the expectation that individual work will be submitted unless otherwise allowed by an instructor, and the obligations both to protect one’s own academic work from misuse by others as well as to avoid using another’s work as one’s own. All students are expected to understand and abide by these principles. Scampus, the Student Guidebook, contains the Student Conduct Code in Section 11.00, while the recommended sanctions are located in Appendix A: http://www.usc.edu/dept/publications/SCAMPUS/gov/. Students will be referred to the Office of Student Judicial Affairs and Community Standards for further review, should there be any suspicion of academic dishonesty. The Review process can be found at: http://www.usc.edu/student-affairs/SJACS/.

Students with Disabilities

Any student requesting academic accommodations based on a disability is required to register with Disability Services and Programs (DSP) each semester. A letter of verification for approved accommodations can be obtained from DSP. Please be sure the letter is delivered to your course instructor (or TA) as early in the semester as possible. DSP is located in STU 301 and is open from 8:30am to 5:00pm, Monday through Friday. Website and contact information for DSP http://sait.usc.edu/academicsupport/centerprograms/dsp/home_index.html (213) 740-0776 (Phone), (213) 740-6948 (TDD only), (213) 740-8216 (FAX) ability@usc.edu

Emergency Preparedness/Course Continuity in a Crisis

In case of emergency, when travel to campus is difficult, if not impossible, USC executive leadership will announce a digital way for instructors to teach students in their residence halls or homes using a combination of the Blackboard LMS (Learning Management System), teleconferencing, and other technologies. Instructors should be prepared to assign students a “Plan B” project that can be completed ‘at a distance.’ For additional information about maintaining your classes in an emergency, please access: http://cst.usc.edu/services/emergencyprep.html
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Course Outline
Note: Schedule subject to change

Week 1 01/12  Course Overview
Browser Technologies and Scripting Languages
The DOM
What are objects?
Chrome Developer Tools

01/14  CSS Review (styles, stylesheets, properties, selectors)

Week 2 01/19  Introduction to jQuery
Using jQuery Plugins
Debugging

01/21  jQuery continued

Week 3 01/26  Introduction to programming and JavaScript

01/28  JS Variables, Expressions, Functions

Week 4 02/02  Conditional Logic

02/04  ‘this’ keyword
Editing style properties

Week 5 02/09  Indexed arrays
innerHTML

02/11  indexOf
Data Validation

Week 6 02/16  Loops
charAt, substring, replace

02/18  Searching through arrays

Week 7 02/23  Cross-browser, page info

02/25  jQuery and JS integration
<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 8</td>
<td>03/01</td>
<td>Attribute selectors, form objects</td>
</tr>
<tr>
<td></td>
<td>03/03</td>
<td>Exam Review</td>
</tr>
<tr>
<td>Week 9</td>
<td>03/08</td>
<td>Exam – Written</td>
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<td></td>
<td>03/10</td>
<td>Exam – Practical</td>
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<tr>
<td>Week 10</td>
<td>03/22</td>
<td>DOM traversal with jQuery</td>
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<tr>
<td></td>
<td>03/24</td>
<td>Timers, asynchronous code, cookies</td>
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<tr>
<td>Week 11</td>
<td>03/29</td>
<td>Object literals</td>
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<tr>
<td></td>
<td>03/31</td>
<td>jQuery animate, jQuery UI</td>
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<tr>
<td>Week 12</td>
<td>04/05</td>
<td>Student Conferences</td>
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<tr>
<td></td>
<td>04/07</td>
<td>Student Conferences</td>
</tr>
<tr>
<td>Week 13</td>
<td>04/12</td>
<td>Special Topics</td>
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<tr>
<td></td>
<td>04/14</td>
<td>Special Topics</td>
</tr>
<tr>
<td>Week 14</td>
<td>04/19</td>
<td>JSONP</td>
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<tr>
<td></td>
<td>04/21</td>
<td>TBA</td>
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<tr>
<td>Week 15</td>
<td>04/26</td>
<td>JS group presentations</td>
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<tr>
<td></td>
<td>04/28</td>
<td>Final Project Presentations</td>
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