Interactive Web Development
ITP 301 (4 Units)

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.

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

Prerequisites
ITP 104

Instructor
Zune Nguyen

Contact
tridunngn@usc.edu

Office Hours
See course website

Lecture and Lab
Tuesday, Thursday 4pm - 5:50pm, KAP 107

Website
http://itpwebdev.com/

Textbooks
None

Grading
The following percentage breakdown will be used in determining the grade for the course.

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignments</td>
<td>30%</td>
</tr>
<tr>
<td>Attendance, Participation, 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.

- **A** 93% or up
- **A-** 90% - 92.99%
- **B+** 87% - 89.99%
- **B** 83% - 86.99%
- **B-** 80% - 82.99%
- **C+** 77% - 79.99%
- **C** 73% - 76.99%
- **C-** 70% - 72.99%
- **D+** 67% - 69.99%
- **D** 65% - 66.99%
- **F** 64.99% or below

**Policies**

**Exams**
No make-up exams (except for documented medical or family emergencies) will be offered.

**Attendance**
Attendance is mandatory; you can miss up to **two** lectures without affecting your grade.

**Labs**
Labs must be demonstrated to TAs before leaving lab session. No late lab submissions are accepted.

**Late Assignments**
10% per day penalty is applied for late assignments. No submissions are accepted 4 days after due date.

**Grade Corrections**
Any questions or concerns regarding grades must be addressed within 7 days after grades are posted on Blackboard. No corrections to any grades will be made after 7 days.
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 not 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).”

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. If you need accommodations for an exam, the form needs to be given to the instructor at least two weeks before the exam.

DSP is located in STU 301 and is open from 8:30am to 5:00pm, Monday through Friday. Contact info: 213-740-0776 (Phone), 213-740-6948 (TDD only), 213-740-8216 (FAX), ability@usc.edu, http://sait.usc.edu/academicsupport/centerprograms/dsp/home_index.html.

Statement on Academic Conduct and Support Systems

Academic Conduct

Plagiarism - presenting someone else’s ideas as your own, either verbatim or recast in your own words - is a serious academic offense with serious consequences. Please familiarize yourself with the discussion of plagiarism in SCampus in Section 11, Behavior Violating University Standards https://scampus.usc.edu/1100-behavior-violating-university-standards-and-appropriate-sanctions/. Other forms of academic dishonesty are equally unacceptable. See additional information in SCampus and university policies on scientific misconduct, http://policy.usc.edu/scientific-misconduct/.

Discrimination, sexual assault, and harassment are not tolerated by the university. You are encouraged to report any incidents to the Office of Equity and Diversity http://equity.usc.edu/ or to the Department of Public Safety http://capsnet.usc.edu/department/department-public-safety/online-forms/contact-us. This is important for the safety whole USC community. Another member of the university community - such as a friend, classmate, advisor, or faculty member - can help initiate the report, or can initiate the report on behalf of another person. The Center for Women and Men
http://www.usc.edu/student-affairs/cwm/ provides 24/7 confidential support, and the sexual assault resource center webpage sarc@usc.edu describes reporting options and other resources.

**Support Systems**

A number of USC’s schools provide support for students who need help with scholarly writing. Check with your advisor or program staff to find out more. Students whose primary language is not English should check with the American Language Institute http://dornsife.usc.edu/ali, which sponsors courses and workshops specifically for international graduate students. The Office of Disability Services and Programs http://sait.usc.edu/academicsupport/centerprograms/dsp/home_index.html provides certification for students with disabilities and helps arrange the relevant accommodations. If an officially declared emergency makes travel to campus infeasible, USC Emergency Information http://emergency.usc.edu/ will provide safety and other updates, including ways in which instruction will be continued by means of blackboard, teleconferencing, and other technology.
# Interactive Web Development

**ITP 301 (4 Units)**

## Course Outline

*Subject to change throughout the semester*

<table>
<thead>
<tr>
<th>Week</th>
<th>Lecture</th>
<th>Lab</th>
<th>Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Course Overview, Web Interactivity, Intro to JavaScript</td>
<td>L1: Student Pages</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>JS Object Properties Variables, Conditional Statements</td>
<td>L2: JS Photo Gallery</td>
<td>A1: Simplified Shopping Cart</td>
</tr>
<tr>
<td>3</td>
<td>Arrays, Loops Functions, Variable Scope</td>
<td>L3: Photo Gallery using Arrays</td>
<td>A2: JS Calculator</td>
</tr>
<tr>
<td>4</td>
<td>Keyboard &amp; Form Events, Strings String Operations</td>
<td>L4: Password Validation</td>
<td>A3: Form Validation</td>
</tr>
<tr>
<td>5</td>
<td>External JS, Regular Expressions JavaScript Objects</td>
<td>L5: RegEx Validation</td>
<td>A4: Google Maps API</td>
</tr>
<tr>
<td>6</td>
<td>Creating DOM Nodes, JSON JSONP</td>
<td>L6: Shopping List</td>
<td>A5: The Movie DB</td>
</tr>
<tr>
<td>7</td>
<td>AJAX Cookies, Web Storage</td>
<td>L7: The Movie DB using AJAX</td>
<td>A6: Bookmarks with Persistent Storage</td>
</tr>
<tr>
<td>8</td>
<td>Intro to jQuery jQuery part 2</td>
<td>L8: jQuery Effects</td>
<td>A7: jQuery Photo Gallery</td>
</tr>
<tr>
<td>9</td>
<td><strong>Midterm Exam (Tue &amp; Thu)</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Spring Break*
<table>
<thead>
<tr>
<th>Day</th>
<th>Topic</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Timers</td>
<td>A7: Stopwatch</td>
</tr>
<tr>
<td>11</td>
<td>Canvas</td>
<td>A8: Canvas Rendering</td>
</tr>
<tr>
<td>12</td>
<td>Lectures Cancelled</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>JS Front-end Frameworks</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Asynchronous JS, Promises</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Web Industry Outlook</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>(Finals Day) Final Project Presentations</td>
<td>Final Project</td>
</tr>
</tbody>
</table>