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	tridungn@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.

Assignments	30%
Attendance, Participation, Labs	15%
Midterm Exam	20%
Final Project	35%
Total	100%

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.

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Course Outline
Subject to change throughout the semester

Week	Lecture	Lab	Assignment
1	Course Overview, Web Interactivity Intro to JavaScript	L1: Student Pages	
2	JS Object Properties Variables, Conditional Statements	L2: JS Photo Gallery	A1: Simplified Shopping Cart
3	Arrays, Loops Functions, Variable Scope	L3: Photo Gallery using Arrays	A2: JS Calculator
4	Keyboard & Form Events, Strings String Operations	L4: Password Validation	A3: Form Validation
5	External JS, Regular Expressions JavaScript Objects	L5: RegEx Validation	A4: Google Maps InfoWindow
6	Creating DOM Nodes Creating DOM Nodes Continued	L6: Dynamic Photo Gallery	A5: Dynamic DOM Manipulation
7	JSON, JSONP AJAX		A6: The Movie DB
8	Intro to jQuery Midterm Review	L7: jQuery Photo Gallery	
9	**Midterm Exam (Tue & Thu)**		
	Spring Break		

10	Midterm Walkthrough	A7: Final Project Proposal
	JS, jQuery Plugins	Final Project Assigned
11	Timers	L8: Timer Countdown
	JS Animations	
12	Canvas	
	Canvas Animations	
13	Cookies, DOM Storage	
	Templating Engines, Handlebars	
14	*Lectures Cancelled*	
15	Front-end JS Frameworks, Vue.js	
	The future of JavaScript	
Finals	Final Project Presentations	**Final Project**