

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 or intermediate knowledge of HTML & CSS.

Instructor

Zune Nguyen

Contact

zune@usc.edu

Office Hours

See course website

Lecture and Lab

Tuesday & Thursday, 4pm - 5:50pm, VHE 210

Website

<http://itpwebdev.com/>

Grading

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

Attendance & Participation	10%
Assignments	30%
Labs	10%
Midterm Exam	20%
Final Project	30%
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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 emergencies) will be offered.

Attendance

Lecture attendance is mandatory; you can miss two lectures without losing attendance credit.

Late Assignments

10% per day penalty is applied for late assignments. No submissions are accepted 4 days after due date. To receive a grade, you must notify the grader once your late assignment is submitted.

Late Labs

No late lab submissions are accepted.

Grade Corrections

Any questions or concerns regarding grades must be addressed within 7 days after grades are posted on Blackboard. No changes 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/academicssupport/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, JS Object Properties	L1: Student Pages	A1: JS Photo Gallery
2	DOM Traversal, Variables	L2: Currency Converter	A2: Shopping Cart
3	Conditional Statements, Variable Scope	L3: Shopping Cart w/ Funds	A3: Calculator
4	Arrays, Loops, Functions	L4: Updated Photo Gallery	A4: Liar's Dice
5	Keyboard & Form Events, Strings	L5: Password Validation	A4: Form Validation
6	External JS, Regular Expressions	L6: Password Validation w/ RegEx	A5: Registration Form Validation
7	DOM Manipulation	L7: Dynamic Photo Gallery	A5: DOM Manipulation
8	JavaScript Objects	L8: Contact List using Objects	A9: Final Project Proposal Final Project Assigned
9	Midterm Exam (Tue & Thu)		
10	JSON, JSONP, AJAX	L9: The Movie DB	A10: Final Project Homepage
11	Cookies, DOM Storage	L10: Dashboard w/ Storage	

12	Timers, Animations	L11: Page Animations	A11: Final Project Static Pages
13	jQuery	L12: jQuery Photo Gallery	
14	Templating Engines, Handlebars.js	L13: Rendering w/ Handlebars	
15	JS Front-End Frameworks, Vue.js		
16 (Finals Day)	Final Project Presentations		Final Project Due
