

Interactive Web Development

ITP 301 (4 Units)



Spring 2016

Section 32035R, 32036R

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)
Sean Leonard (stleonar@usc.edu)

Lecture / Lab

Tuesdays & Thursdays 2:00 – 4:50 PM, KAP 267

Website

<http://uscitp.com/spring-2016/itp-301-2pm/>

Textbook

Javascript Bible, 6th Edition, Danny Goodman, Hungry Minds, 2007.
(optional)

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:

Quizzes, Assignments, and Projects	30%
Participation, Attendance, 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.

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

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