

Objective

Whether Twitter, Facebook, Google Maps, or Dropbox, the vast majority of cutting-edge software applications are now developed on the Web. Because of this, being able to develop websites scripting is a core competency that any innovative technologist must understand.

Student will learn the basics of web page creation and web objects, scripting and interactivity. By the end of the course students will not only have the skills to build an interactive web site but will have a solid foundation in scripting fundamentals.

Concepts

This course teaches JavaScript to provide an extremely interactive introduction to the logic of coding. It combines the programming with HTML/CSS, so that upon completion students will be able to create dynamic websites.

This course is intended to cover all of the basic technologies involved in publishing web pages and sites. This includes:

- HTML
- CSS
- DHTML

This class will also introduce students to web objects and scripting including:

- Fundamental scripting and programming concepts
- The Javascript and jQuery languages
- Manipulating and adding interactivity to web objects

Prerequisites:	None.
Instructor	Patrick Dent
Contact	dent@usc.edu / OHE530D / 213-821-1400
Office Hours	T/Th 1 – 1:50 p. m. in STO331 T/Th 3:30 - 4:30 p. m. in LVL16 <i>And by appointment</i>
Grader	Jared Bass <jaredbas@usc.edu>
Website	http://iyawebdev.com/acad275
Required Textbooks	None

Grading

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

Assignments	30%
Participation and labs	15%
Examinations	20%
Group Projects	35%
Total	100%

Grading Scale

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

A	100-93
A-	92-90
B+	89-87
B	86-83
B-	82-80
C+	79-77
C	76-73
C-	72-70
D+	69-67
D	66-65
F	64 or below

Course Structure

Students are expected to:

- Participate in lecture discussions and critiques
- Complete weekly lab 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 an assignment page.

Policies

No make-up exams (except for documented medical or family emergencies).

Due dates and requirements for all Labs and Assignments will be posted on the course site. Students will “post” their work to their USC web space as defined on the course site.

It is the student’s responsibility to post work by the due date following the defined class procedures, even if you miss class. Work turned in late will lose 10% credit per day and late work is not accepted after two weeks past the due date. To receive credit for late work you MUST email the grader that you posted a lab or assignment after the due date or you will not receive credit.

An attendance sheet will be circulated each lecture. You must sign in for lecture to receive lecture attendance credit.

Course Schedule: A Weekly Breakdown

Week 1a	Jan 9	Course introduction. Overview of the Internet and the World Wide Web and related technologies. Introduction to HTML. FTP and 'uploading' files to a server. Lab: FTP to aludra, set up directories and permissions, upload image (due W1b – 1/11)
Week 1b	Jan 11	Basic HTML objects and tags. Images. Lab: Classpage (due W2a -- 1/16) Assignment: Tutorial Page (due W2a -- 1/16)
Week 2a	Jan 16	Review of Basic HTML, 'Good code.' Intro to CSS, styles and stylesheets. Lab: Calendar (due W2b -- 1/18) Assignment: Resume (due W2b -- 1/18)
Week 2b	Jan 18	Style review. "Divs", layout and the "box" model Remote and local files. Folder structures. Assignment: Film Article (due W3a -- 1/23)
Week 3a	Jan 23	CSS Part 2: Stylesheet review, Graphic css and " <i>caniuse.com</i> ", Display, position, max- and min-, visibility. Drop-down nav. Lab: Zen Garden (due W3b – 1/25) Project: Individual site project proposal (due 3b – 1/25)
Week 3b	Jan 25	Creating re-usable CSS classes. HTML Form objects. Assignment: Survey (due W4a – 1/30) Project: Individual project HTML Frontpage build (due W5b -- 2/8)
Week 4a	Jan 30	CSS3: position, opacity, display revisited, embedded fonts, columns, background image compositing, transitions. Assignment: Interactive Article (due W4b – 2/1)
Week 4b	Feb 01	CSS3 review: background compositing, transitions. HTML Review. Exam prep. Introduction to IA, Web design, color issues, Wire framing and style tiles Lab: Practice exam (due W5a -- 2/6)
Week 5a	Feb 06	HTML Examinations
Week 5b	Feb 08	Using a 'visual editor', General introduction to Dreamweaver Updated HTML5 "skeleton". HTML5 structural/semantic tags.

		HTML media tags. iFrames and embedded video. Image maps. Image sprites. Assignment: Peer critiques of frontpages (due W6a – 2/13) Lab: Frontpage “alternate” style tiles (due W6a – 2/13) Lab: Sprite graphic (due W6a -- 2/13)
Week 6a	Feb 13	Introduction to Responsive Web Design, media queries Lab: Print stylesheet (due W6b – 2/15) Assignment: Responsive film review (due W7a – 2/20)
Week 6b	Feb 15	TBA Project: Responsive frontpage/homepage (due W8a – 2/28)
Week 7a	Feb 20	Introduction to concepts in Dynamic HTML. Introduction to web objects. Object-oriented scripting basics. Intro to working with external scripts and plug-ins. Lab: Interactive info page (due W7b -- 2/22)
Week 7b	Feb 22	Introduction to jQuery Lab: Implement a slideshow plug-in (due W8a – 2/27) Lab: Add jQuery to a form (due W8a – 2/27) (Tentative) Group Project1 with IF (due TBA, roughly early March)
Week 8a	Feb 27	jQuery fundamentals Assignment: Interactive Photo Gallery (due W8b – 3/1)
Week 8b	Mar 01	Introduction to Javascript syntax and the DOM Assignment: Build a Javascript color setter (due W9a -- 3/6)
Week 9a	Mar 06	Variables, Expressions, Functions Lab: Function lab (due W9b – 3/9) Assignment: Calculator app (due W10a – 3/21)
Week 9b	Mar 08	Conditional Logic, Editing Style Properties Lab: Edit CSS properties of web objects (due W10a – 3/21)
	Mar 13, 15	<i>Spring Break</i>

Week 10a	Mar 20	TBA
Week 10b	Mar 22	Arrays, Dynamic Documents Assignment: Random photo page (due W11a -- 3/27)
Week 11a	Mar 27	Data validation Lab: Email validation (due W11b -- 3/29) Group Project2: C.S. group business website (<i>tentatively</i> due 4/27)
Week 11b	Mar 29	Regular Expressions, Loops Lab: Re-structuring data (due W12a – 4/3)
Week 12a	Apr 3	Searching through Arrays Assignment: Dynamic bookmark data page (due W13a -- 4/10)
Week 12b	Apr 5	Scripting media. jQuery animation. Using other libraries Lab: Web animation (due W10b – 4/10)
Week 13a	Apr 10	jQuery and Javascript review. Exam prep. Project: Group Project Technical Proposal (due W14a -- 4/17)
Week 13b	Apr 12	JS Examinations
	TBA	<i>Object detection, return, Window and document objects, Dynamic form objects revisited</i> Lab: Build a computer (due W13b -- 4/17)
Week 14a	Apr 17	JS Data Objects, JSON
Week 14b	Apr 19	Ajax (tentative). Cookies. Timers. Lab: Build a cookie-driven page (due W15a -- 4/24)
Week 15a	Apr 24	Special Topics (TBA)
Week 15b	Apr 26	Web technologies overview, The Web development industry, Next-generation development
<i>(Tentative)</i>	Apr 27	GROUP Project Final Build posted by 6pm
	May 3	<i>Student Presentations of Group Projects</i>

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 Part B, Section 11, “Behavior Violating University Standards” policy.usc.edu/scampus-part-b. 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>.

Support Systems:

Student Counseling Services (SCS) – (213) 740-7711 – 24/7 on call

Free and confidential mental health treatment for students, including short-term psychotherapy, group counseling, stress fitness workshops, and crisis intervention. engemannshc.usc.edu/counseling

National Suicide Prevention Lifeline – 1 (800) 273-8255

Provides free and confidential emotional support to people in suicidal crisis or emotional distress 24 hours a day, 7 days a week. www.suicidepreventionlifeline.org

Relationship and Sexual Violence Prevention Services (RSVP) – (213) 740-4900 – 24/7 on call

Free and confidential therapy services, workshops, and training for situations related to gender-based harm. engemannshc.usc.edu/rsvp

Sexual Assault Resource Center

For more information about how to get help or help a survivor, rights, reporting options, and additional resources, visit the website: sarc.usc.edu

Office of Equity and Diversity (OED)/Title IX Compliance – (213) 740-5086

Works with faculty, staff, visitors, applicants, and students around issues of protected class. equity.usc.edu

Bias Assessment Response and Support

Incidents of bias, hate crimes and microaggressions need to be reported allowing for appropriate investigation and response. studentaffairs.usc.edu/bias-assessment-response-support

The Office of Disability Services and Programs

Provides certification for students with disabilities and helps arrange relevant accommodations. dsp.usc.edu

Student Support and Advocacy – (213) 821-4710

Assists students and families in resolving complex issues adversely affecting their success as a student EX: personal, financial, and academic. studentaffairs.usc.edu/ssa

Diversity at USC

Information on events, programs and training, the Diversity Task Force (including representatives for each school), chronology, participation, and various resources for students. diversity.usc.edu

USC Emergency Information

Provides safety and other updates, including ways in which instruction will be continued if an officially declared emergency makes travel to campus infeasible. emergency.usc.edu

USC Department of Public Safety – UPC: (213) 740-4321 – HSC: (323) 442-1000 – 24-hour emergency or to report a crime.

Provides overall safety to USC community. dps.usc.edu