USC Iovine and Young Academy

Arts, Technology and the Business of Innovation

Acad275: Dev 1
4 Units
Tuesdays / Thursdays 2 – 4:50 p.m.
IYH210
Spring 2022

Website:	http://iyawebdev.com/acad275a
Instructor:	**Patrick Dent**
Office:	Online (and in IYH210)
Office Hours	*See course site for scheduled hours*
	And by appointment
Contact Info:	dent@usc.edu / **213-821-1400**
	Note: Email is the preferred method of contact.
	I will typically respond with 24 hours (M - F).
Grader:	**Vidhi Mehta <vidhitus@usc.edu>**

IT Help: https://uscedu.sharepoint.com/sites/IYAStudent/SitePages/IT-Resources.aspx
Hours of Service: 8:30am – 6:30pm
Contact Info: iya.helpdesk@usc.edu

Course 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.

Course 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 the basic technologies involved in publishing web pages and sites. This includes:
•   HTML
•   CSS
•   Dynamic (DHTML) and beginner Javascript

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

Grading

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

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

Grading Scale

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

A	100-94
A-	94-90
B+	90-87
B	87-83
B-	83-80
C+	80-77
C	77-73
C-	73-70
D+	70-67
D	67-64
F	64 or below

Group Project Timeline

Due Week 12	Milestone	*Design concepts*
Due Week 14	Milestone	*Content Build*
Due end of Week 15	Milestone	*Final Technical Build*

Course Structure

Students are expected to:
- Participate in lecture discussions, demo builds 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 if 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.

Academy Student Attendance Policy

The Academy maintains rigorous academic standards for its students and on-time attendance at all class meetings is expected. Each student will be allowed two excused absences over the course of the semester for which no explanation is required. Students are admonished to not waste excused absences on non-critical issues, and to use them carefully for illness or other issues that may arise unexpectedly. Except in the case of prolonged illness or other serious issue (see below), no additional absences will be excused. Each unexcused absence will result in the lowering of the final grade by 1/3 of a grade (e.g., an A will be lowered to A-, an A- will be lowered to B+, etc.).

Students remain responsible for any missed work from excused or unexcused absences. Immediately following an absence, students should contact the instructor to obtain missed assignments or lecture notes and to confirm new deadlines or due dates. Extensions or other accommodations are at the discretion of the instructor.

Automatically excused absences normally may not be used for quiz, exam or presentation days. Using an excused absence for a quiz, exam or presentation, such as in the case of sudden illness or other emergency, is at the discretion of the instructor.

In the case of prolonged illness, family emergencies, or other unforeseen serious issues, the student should contact the instructor to arrange for accommodation. Accommodation may also be made for essential professional or career-related events or opportunities. All accommodations remain at the discretion of the instructor, and appropriate documentation may be required.

Spring 2022 addendum:

· Unless students provide an accommodation letter from USC's Office of Student Accessibility Services or a letter from IYA Student Services detailing visa or travel restrictions, attendance and active participation is expected in the classroom. Any student with such accommodations should submit their accommodation document to the instructor as soon as possible to discuss appropriate accommodations. Either classroom recordings or live remote access to the class via Zoom will be provided.

· Students who are experiencing illness should not attend class in person. Please inform the instructor in advance of any class sessions that you can't attend for medical reasons, and accommodations will be arranged to view recorded lectures and submit alternatives to any missed class participation. Students will not be penalized for not attending class in person under these circumstances.

· In the event that you find yourself experiencing COVID-19 related symptoms, in keeping with university recommendations, you should Stay home! This is the best way to prevent spreading COVID-19 as supported by scientific evidence; Please do not come to an in-person class if you are feeling ill, particularly if you are experiencing symptoms of COVID-19

HOW TO PURCHASE SOFTWARE AT THE DISCOUNTED ACADEMY RATE:

The following software are available for purchase **online** at the Iovine and Young Academy discounted rate

Software	IYA Short-Term License
Adobe Creative Cloud	$70 2021-2022 annual license (active through July 2022)

To purchase:

- Visit: https://commerce.cashnet.com/IOVINE
- Select the software license(s) you would like to purchase by clicking "View Details" or the software title, and make your purchase
- You will receive an order confirmation receipt at the email address you provided
- You will be notified by email when the software license has been activated

If you have any questions about this process, please do not hesitate to contact
Academy IT Support at iya.helpdesk@usc.edu.

Course Schedule: A Weekly Breakdown

Week 1a	Jan 10	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)
Week 1b	Jan 12	Basic HTML objects and tags. Images. *Lab:* Classpage (due W2a) **Assignment:** Tutorial Page (due W2a)
Week 2a	Jan 17	Review of Basic HTML, 'Good code.' Intro to CSS, styles and stylesheets. **Assignment:** Resume (due W2b)
Week 2b	Jan 19	Style review. "Divs", layout and the "box" model Remote and local files. Folder structures. *Lab:* Calendar (due W3a) **Assignment:** Film Article (due W3a)
Week 3a	Jan 24	CSS Part 2: Stylesheet review, Graphic css, *"caniuse.com"*, Display, position, max- and min-, visibility. Drop-down nav. Intro to Flexbox *Lab:* Flexbox nav (due W3b) **Project:** Individual site project proposal (due 3b)
Week 3b	Jan 26	Creating re-usable CSS classes. HTML Form objects. **Assignment:** Survey (due W4a) **Project:** Individual project HTML Front build (due W5b)
Week 4a	Jan 31	CSS3: position (con't), display (con't), opacity, columns, embedded fonts, background image compositing, transitions. **Assignment:** Interactive Article (due W4b)
Week 4b	Feb 02	CSS3 review: background compositing, transitions. HTML Review. Exam prep. Introduction to IA, Web design, color issues, *Lab:* Practice exam (due W5a)
Week 5a	Feb 07	**HTML Examinations**

Week 5b	Feb 09	Introduction to Responsive Web Design, media queries Introduction to CSS frameworks, libraries, Bootstrap Using a 'visual editor', introduction to Dreamweaver Updated HTML5 "skeleton". H5 structural/semantic tags. *Lab:* Print stylesheet (due W6a) *Lab:* Frontpage design notes (due W6a) **Assignment:** Responsive film review (due W6b)
Week 6a	Feb 14	Etiquette and basics of design critiques. Critique. **Assignment:** Peer critiques of frontpages (due W6b)
Week 6b	Feb 16	HTML media tags. iFrames and embedded video. Image maps. Image sprites. *Lab:* Frontpage "alternate" style tiles (due W7a)
Week 7a	Feb 21	Introduction to concepts in Dynamic HTML. Introduction to web objects, object-oriented scripting basics. Introduction to Javascript syntax and the DOM **Assignment:** Build a Javascript color setter (due W7b)
Week 7b	Feb 23	Variables, Expressions, Functions *Lab:* Function lab (due W8a) **Assignment:** Calculator app (due 8b) **Assignment: Individual Project Milestone**: Content Build (due W10b)
Week 8a	Feb 28	Review of functions. Conditional Logic. *Lab:* JS TV form page (due 8b)
Week 8b	Mar 02	Review of Conditional Logic. Introduction to jQuery *Lab:* Add jQuery to a college page (due W9a) *Lab:* Add jQuery to a resource page (due W9a)
Week 9a	Mar 07	jQuery fundamentals **Assignment:** Interactive Photo Gallery (due W10a)
Week 9b	Mar 09	Review of JS vs jQ syntax Intro to Dyanmic Documents. Intro to working with external scripts and plug-ins. *Lab:* Implement a slideshow plug-in (due W10b)
	Mar 14, 16	*Spring Recess*
Week 10a	Mar 21	Review of Dynamic Documents, Intro to Arrays **Assignment:** Random photo page (due W10b)

Assignment: Individual Project: Final Build (due W12a)

Week 10b	Mar 23	Array review, Data validation *Lab:* Email validation (due W11a) **Assignment:** Dog photo page (due 11b)
Week 11a	Mar 28	Regular Expressions, Loops *Lab:* Re-structuring data (due W11b) **Assignment:** Designs for Group Project (due W11b)
Week 11b	Mar 30	Searching through Arrays Intro to source contro, github **Assignment:** Dynamic bookmark data page (due W12B) *Lab:* Github group repo (due W12a) **Group Assignment:** Group critique prep (due 12a)
Week 12a	Apr 04	Group Projects Design critique. jQuery and Javascript review. Exam prep. **Group Project:** Content Build (due W14a) **Group Project:** Technical Proposal (due W14a) **Group Project**: Final Build (due end of W15)
Week 12b	Apr 06	**JS Examinations**
Week 13a	Apr 11	Scripting media. jQuery animation. *Lab:* Web animation (due W14a)
Week 13b	Apr 13	Data storage, timers
Week 14a	Apr 18	JS Data Objects, JSON
Week 14b	Apr 20	Calling data APIs
Week 15a	Apr 25	Special Topics (TBA)
Week 15b	Apr 27	Web technologies overview, The Web development industry, Next-generation development
	Apr 28	GROUP Project Final Build posted by 11:59pm
	May 04	*Student Presentations of Group Projects*

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 Research and Scholarship Misconduct.

Students and Disability Accommodations:

USC welcomes students with disabilities into all of the University's educational programs. The Office of Student Accessibility Services (OSAS) is responsible for the determination of appropriate accommodations for students who encounter disability-related barriers. Once a student has completed the OSAS process (registration, initial appointment, and submitted documentation) and accommodations are determined to be reasonable and appropriate, a Letter of Accommodation (LOA) will be available to generate for each course. The LOA must be given to each course instructor by the student and followed up with a discussion. This should be done as early in the semester as possible as accommodations are not retroactive. More information can be found at osas.usc.edu. You may contact OSAS at (213) 740-0776 or via email at osasfrontdesk@usc.edu.

Support Systems:

Counseling and Mental Health - (213) 740-9355 – 24/7 on call studenthealth.usc.edu/counseling
Free and confidential mental health treatment for students, including short-term psychotherapy, group counseling, stress fitness workshops, and crisis intervention.

National Suicide Prevention Lifeline - 1 (800) 273-8255 – 24/7 on call suicidepreventionlifeline.org
Free and confidential emotional support to people in suicidal crisis or emotional distress 24 hours a day, 7 days a week.

Relationship and Sexual Violence Prevention Services (RSVP) - (213) 740-9355(WELL), press "0" after hours – 24/7 on call studenthealth.usc.edu/sexual-assault
Free and confidential therapy services, workshops, and training for situations related to gender-based harm.

Office for Equity, Equal Opportunity, and Title IX (EEO-TIX) - (213) 740-5086 eeotix.usc.edu
Information about how to get help or help someone affected by harassment or discrimination, rights of protected classes, reporting options, and additional resources for students, faculty, staff, visitors, and applicants.

Reporting Incidents of Bias or Harassment - (213) 740-5086 or (213) 821-8298 usc-advocate.symplicity.com/care_report
Avenue to report incidents of bias, hate crimes, and microaggressions to the Office for Equity, Equal Opportunity, and Title for appropriate investigation, supportive measures, and response.

The Office of Student Accessibility Services (OSAS) - (213) 740-0776 osas.usc.edu
OSAS ensures equal access for students with disabilities through providing academic accommodations and auxiliary aids in accordance with federal laws and university policy.

USC Campus Support and Intervention - (213) 821-4710 campussupport.usc.edu
Assists students and families in resolving complex personal, financial, and academic issues adversely affecting their success as a student.

Diversity, Equity and Inclusion - (213) 740-2101 diversity.usc.edu
Information on events, programs and training, the Provost's Diversity and Inclusion Council, Diversity Liaisons for each academic school, chronology, participation, and various resources for students.

USC Emergency - UPC: (213) 740-4321, HSC: (323) 442-1000 – 24/7 on call dps.usc.edu, emergency.usc.edu
Emergency assistance and avenue to report a crime. Latest updates regarding safety, including ways in which instruction will be continued if an officially declared emergency makes travel to campus infeasible.

USC Department of Public Safety - UPC: (213) 740-6000, HSC: (323) 442-120 – 24/7 on call dps.usc.edu
Non-emergency assistance or information.

Office of the Ombuds - (213) 821-9556 (UPC) / (323-442-0382 (HSC) ombuds.usc.edu
A safe and confidential place to share your USC-related issues with a University Ombuds who will work with you to explore options or paths to manage your concern.

Occupational Therapy Faculty Practice - (323) 442-3340 or otfp@med.usc.edu chan.usc.edu/otfp
Confidential Lifestyle Redesign services for USC students to support health promoting habits and routines that enhance quality of life and academic performance.