

USC Iovine and Young Academy

*Arts, Technology and the Business
of Innovation*

Acad275: Dev 1

4 Units

Mondays / Wednesday 5 – 7:50 p.m. in IYH210

Fall 2019

Website: <http://iyawebdev.com/acad275>

Instructor: **Patrick Dent**

Office: IYH201N

Office Hours Mon 3:50 – 4:50pm in IYH212

Tue 1 – 1:50pm in TH210

Tue 3:30-4:20pm in IYH210

Wed 4 – 4:50pm in IYH212

Thu 3:30-4:20pm in IYH210

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: **Akshat Barbhaya <abarbhay@usc.edu>**

IT Help: <https://iovine-young.usc.edu/ait/index.html>

Hours of Service: 8:30am - 5:00pm

Contact Info: iyhelp@usc.edu, 213-821-6917

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 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

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%
<hr/>	
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	86-83
B-	83-80
C+	80-77
C	77-73
C-	73-70
D+	70-67
D	67-64
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.

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.

HOW TO PURCHASE *OPTIONAL* SOFTWARE AT THE DISCOUNTED ACADEMY RATE THROUGH THE USC BOOKSTORE:

The following first year software are now available for purchase **online** through the USC Bookstore at the Academy discounted rate:

<u>Software</u>	<u>IYA Short-Term License at USC Bookstore</u>
Adobe Creative Cloud	\$70 2019-2020 annual license

1. Visit the USC Bookstore online:
<https://www.uscbookstore.com/usciyasoftware>
2. Select the software license(s) you would like to purchase.
3. When you proceed to checkout, add the Promo Code “IYASoftware” (This will override the listed taxes).
4. For shipping, select FedEx Home Delivery (free).
5. Once you complete your online purchase, you will receive a confirmation email/receipt.
(Note that even if a shipping charge appears on your invoice, it will not be charged to your credit card. This relates to a known technical problem with the Bookstore’s online store.)
6. Upload your receipt [here](#) to receive access to your purchased license.
7. You will be notified by email when the license has been activated

Course Schedule: A Weekly Breakdown

Week 1a	Aug 26	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	Aug 28	Basic HTML objects and tags. Images. Lab: Classpage (due W2a) Assignment: Tutorial Page (due W2a)
	Sep 02	<i>University Holiday</i>
Week 2b	Sep 04	Review of Basic HTML, 'Good code.' Intro to CSS, styles and stylesheets. Lab: Calendar (due W3a) Assignment: Resume (due W3a)
Week 3a	Sep 09	Style review. "Divs", layout and the "box" model Remote and local files. Folder structures. Assignment: Film Article (due W3b)
Week 3b	Sep 11	CSS Part 2: Stylesheet review, Graphic css and "caniuse.com", Display, position, max- and min-, visibility. Drop-down nav. Lab: Zen Garden (due W4a) Project: Individual site project proposal (due 4a)
Week 4a	Sep 16	Creating re-usable CSS classes. HTML Form objects. Assignment: Survey (due W4b) Project: Individual project HTML Frontpage build (due W6a)
Week 4b	Sep 18	CSS3: position, opacity, display revisited, embedded fonts, columns, background image compositing, transitions. Assignment: Interactive Article (due W5b)
Week 5a	Sep 23	CSS3 review: background compositing, transitions. HTML Review. Exam prep. Introduction to IA, Web design, color issues. Introduction to Graphic Production, Photoshop. Lab: Practice exam (due W5b)
Week 5b	Sept 25	HTML Examinations

Week 6a queries	Sept 30	Introduction to Responsive Web Design, media Lab: Frontpage design notes (due W6a) Lab: Print stylesheet (due W6b) Assignment: Responsive film review (due W7a)
Week 6b	Oct 02	Etiquette and basics of design critiques. Critique. Using a ‘visual editor’, General introduction to Dreamweaver Updated HTML5 “skeleton”. HTML5 structural/semantic tags. Assignment: Peer critiques of frontpages (due W7a)
Week 7a	Oct 07	HTML media tags. iFrames and embedded video. Image maps. Image sprites. Lab: Frontpage “alternate” style tiles (due W7b)
Week 7b	Oct 09	Introduction to concepts in Dynamic HTML. Introduction to web objects. Object-oriented scripting basics. Introduction to jQuery Lab: Add jQuery to a college page (due W8a) Lab: Add jQuery to a resource page (due W8a)
Week 8a	Oct 14	jQuery fundamentals Assignment: Interactive Photo Gallery (due W8b)
Week 8b	Oct 16	Introduction to Javascript syntax and the DOM Assignment: Build a Javascript color setter (due W9b) Assignment: Individual Project Milestone: Content Build (due W10a)
Week 9a	Oct 21	Variables, Expressions, Functions Lab: Function lab (due W9b)
Week 9b	Oct 23	Review of functions. Conditional Logic. Lab: JS TV form page (due W10a) Assignment: Calculator app (due W10b)
Week 10a	Oct 28	Review of Conditional Logic Intro to working with external scripts and plug-ins. Lab: Implement a slideshow plug-in (due W10b)

Week 10b	Oct 30	Arrays, Dynamic Documents Assignment: Random photo page (due W11a) Assignment: Individual Project: Final Build (due W12a)
Week 11a	Nov 04	Data validation Lab: Email validation (due W11b)
Week 11b	Nov 06	Regular Expressions, Loops Lab: Re-structuring data (due W12a) Group Project: Content build of Group Website (<i>tentatively</i> due W14a)
Week 12a	Nov 11	Searching through Arrays Assignment: Dynamic bookmark data page (due W13a)
Week 12b	Nov 13	Scripting media. jQuery animation. Using other libraries Lab: Web animation (due W13a)
Week 13a	Nov 18	jQuery and Javascript review. Exam prep. Project: Group Project Technical Proposal (due W14a)
Week 13b	Nov 20	JS Examinations
	TBA	CSS Frameworks, Bootstrap Lab: Implement Bootstrap page
	TBA	<i>Object detection, return, Window and document objects, Dynamic form objects revisited</i> Lab: <i>Build a computer (due W13b)</i>
Week 14a	Nov 25	JS Data Objects, JSON
	Nov 27	<i>University Holiday</i>
Week 15a	Dec 02	Ajax (tentative). Cookies. Timers. Lab: Build a cookie-driven page (due W15a)
Week 15b	Dec 04	Web technologies overview, The Web development industry, Next-generation development
(<i>Tentative</i>)	Dec 06	GROUP Project Final Build posted by 6pm
	Dec 11	<i>Student Presentations of Group Projects at 4:30pm</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, policy.usc.edu/scientific-misconduct.

Support Systems:

Student Health Counseling Services - (213) 740-7711 – 24/7 on call
engemannshc.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)

<https://studenthealth.usc.edu/sexual-assault/>

Free and confidential therapy services, workshops, and training for situations related to gender-based harm.

Relationship and Sexual Violence Prevention and Services provides immediate therapy services for situations related to gender- and power-based harm (e.g., sexual assault, domestic violence, stalking). (wording from the site)

Office of Equity and Diversity (OED) | Title IX - (213) 740-5086
equity.usc.edu, titleix.usc.edu

Information about how to get help or help a survivor of harassment or discrimination, rights of protected classes, reporting options, and additional resources for students, faculty, staff, visitors, and applicants. The university prohibits discrimination or harassment based on the following protected characteristics: race, color, national origin, ancestry, religion, sex, gender, gender identity, gender expression, sexual orientation, age, physical disability, medical condition, mental disability, marital status, pregnancy, veteran status, genetic information, and any other characteristic which may be specified in applicable laws and governmental regulations.

USC Policy Reporting to Title IX (213) 740-5086

<https://policy.usc.edu/reporting-to-title-ix-student-misconduct/>

The university encourages individuals to report prohibited conduct to the *Title IX Office*. Individuals can report to the university *Title IX Coordinator* in the *Office of Equity and Diversity*.

Bias Assessment Response and Support - (213) 740-2421

studentaffairs.usc.edu/bias-assessment-response-support

Avenue to report incidents of bias, hate crimes, and microaggressions for appropriate investigation and response.

The Office of Disability Services and Programs - (213) 740-0776

dsp.usc.edu

Support and accommodations for students with disabilities. Services include assistance in providing readers/notetakers/interpreters, special accommodations for test taking needs, assistance with architectural barriers, assistive technology, and support for individual needs.

USC Support and Advocacy - (213) 821-4710

studentaffairs.usc.edu/ssa

Assists students and families in resolving complex personal, financial, and academic issues adversely affecting their success as a student.

Diversity at USC - (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.