Acad275: Dev 1
4 Units
Tuesdays / Thursdays 2 – 4:50 p.m. in IYH210
Spring 2020

Website: http://iyawebdev.com/acad275

Instructor: Patrick Dent
Office: IYH201
Office Hours
Tue 1 – 1:50pm in IYH210
Tue 3:30-4:20pm in IYH210
Wed TBA
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.

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignments</td>
<td>30%</td>
</tr>
<tr>
<td>Participation and labs</td>
<td>15%</td>
</tr>
<tr>
<td>Examinations</td>
<td>20%</td>
</tr>
<tr>
<td>Major Group Project</td>
<td>35%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

Grading Scale

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

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>100-94</td>
</tr>
<tr>
<td>A-</td>
<td>94-90</td>
</tr>
<tr>
<td>B+</td>
<td>90-87</td>
</tr>
<tr>
<td>B</td>
<td>87-83</td>
</tr>
<tr>
<td>B-</td>
<td>83-80</td>
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<tr>
<td>C+</td>
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<td>73-70</td>
</tr>
<tr>
<td>D+</td>
<td>70-67</td>
</tr>
<tr>
<td>D</td>
<td>67-64</td>
</tr>
<tr>
<td>F</td>
<td>64 or below</td>
</tr>
</tbody>
</table>
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:

<table>
<thead>
<tr>
<th>Software</th>
<th>IYA Short-Term License at USC Bookstore</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adobe Creative Cloud</td>
<td>$70 2019-2020 annual license</td>
</tr>
</tbody>
</table>

1. Visit the USC Bookstore online:  
   [https://www.uscbookstore.com/usciyasoftware](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](https://example.com) 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  Jan 14  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 16  Basic HTML objects and tags. Images.  
**Lab:** Classpage (due W2a)  
**Assignment:** Tutorial Page (due W2a)

Week 2a  Jan 21  Review of Basic HTML, ‘Good code.’ Intro to CSS, styles and stylesheets.  
**Lab:** Calendar (due W2b)  
**Assignment:** Resume (due W2b)

Week 2b  Jan 23  Style review. “Divs”, layout and the “box” model  
Remote and local files. Folder structures.  
**Assignment:** Film Article (due W3a)

**Lab:** Zen Garden (due W3b)  
**Project:** Individual site project proposal (due 3b)

Week 3b  Jan 30  Creating re-usable CSS classes. HTML Form objects.  
**Assignment:** Survey (due W4a)  
**Project:** Individual project HTML Front build (due W5b)

Week 4a  Feb 04  CSS3: position, opacity, display revisited, embedded fonts, columns, background image compositing, transitions.  
**Assignment:** Interactive Article (due W4b)

Week 4b  Feb 06  CSS3 review: background compositing, transitions. HTML Review. Exam prep. Introduction to IA, Web design, color issues,  
**Lab:** Practice exam (due W5a)

Week 5a  Feb 11  **HTML Examinations**

Week 5b  Feb 13  Introduction to Responsive Web Design, media queries  
**Lab:** Frontpage design notes (due W6a)  
**Lab:** Print stylesheet (due W6a)  
**Assignment:** Responsive film review (due W6b)
Week 6a  Feb 18  Etiquette and basics of design critiques. Critique. Using a ‘visual editor’, introduction to Dreamweaver. Updated HTML5 “skeleton”. H5 structural/semantic tags. **Assignment:** Peer critiques of frontpages (due W6a)

Week 6b  Feb 20  HTML media tags. iFrames and embedded video. Image maps. Image sprites. **Lab:** Frontpage “alternate” style tiles (due W7a)

Week 7a  Feb 25  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 W7b) **Lab:** Add jQuery to a resource page (due W7b)

Week 7b  Feb 27  jQuery fundamentals **Assignment:** Interactive Photo Gallery (due W8b)

Week 8a  Mar 03  Introduction to Javascript syntax and the DOM **Assignment:** Build a Javascript color setter (due W9a) **Assignment:** Individual Project: Content Build (due W10a)

Week 8b  Mar 05  Variables, Expressions, Functions. **Lab:** Function lab (due W9b)

Week 9a  Mar 10  Review of functions. Conditional Logic. **Lab:** JS TV form page (due 9b) **Assignment:** Calculator app (due W10a)

Week 9b  Mar 12  Review of Conditional Logic Intro to working with external scripts and plug-ins. **Lab:** Implement a slideshow plug-in (due W10a)

*Mar 17, 19*  Spring Recess

Week 10a  Mar 24  Arrays, Dynamic Documents **Assignment:** Random photo page (due W10b) **Assignment:** Individual Project: Final Build (due W12a)

Week 10b  Mar 26  Data validation **Lab:** Email validation (due W11a)
Week 11a  Mar 31  Regular Expressions, Loops  
**Lab:** Re-structuring data (due W12a)  
**Group Project:** CS group biz website (tentatively due 5/1)

Week 11b  Apr 02  Searching through Arrays  
**Assignment:** Dynamic bookmark data page (due W12b)

Week 12a  Apr 07  Scripting media. jQuery animation. Using other libraries  
**Lab:** Web animation (due W12b)

Week 12b  Apr 09  TBA

Week 13a  Apr 14  jQuery and Javascript review. Exam prep.  
**Project:** Group Project Technical Proposal (due W14a)

Week 13b  Apr 16  **JS Examinations**

TBA  CSS Frameworks, Bootstrap  
**Lab:** Implement Bootstrap page

TBA  *Object detection, return, Window and document objects, Dynamic form objects revisited*  
**Lab:** *Build a computer (due W13b)*

Week 14a  Apr 21  JS Data Objects, JSON

Week 14b  Apr 23  Ajax (tentative).  
Cookies. Timers.  
**Lab:** Build a cookie-driven page (due W15a)

Week 15a  Apr 28  Special Topics (TBA)

Week 15b  Apr 30  Web technologies overview, The Web development industry, Next-generation development

*(Tentative)*  May 01  **GROUP Project Final Build posted by 6pm**

May 07  **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 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.