

WDIM355 Client-Side Scripting

Section A

Spring 2013, 3 credits
Thursdays, 6:00-9:45pm
Room 216

Instructor: Peter Wooley

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Office Hours: By Appointment

Final: Monday, 7:45-9:45pm

Required Text: None

Required Material: Removable Drive

Course Description

Client-side scripting as a method to develop advanced web applications.

Extended Course Description

Harness the power of JavaScript in an accessible, Standards-minded, and cross-browser way, focusing on code re-use through means of libraries and Object-oriented principles.

Course Outcomes

Upon completion of this course, the student will be able to:

- Create web applications using Object-Oriented JavaScript
- Generate reusable code to increase efficiency
- Manipulate JavaScript to use the Document Object Model (DOM)
- Create dynamic web elements using JavaScript
- Explore JavaScript-based libraries to increase efficiency in web application development

Recommended Reading

Learning jQuery by Karl Swedberg and Jonathan Chaffer (ISBN-13: 978-1847196705)

jQuery in Action by Bear Bibeault & Yehuda Katz (ISBN-13: 978-1935182320)

jQuery Cookbook, Edited by Cody Lindley (ISBN-13: 978-0596159771)

JavaScript: The Good Parts by Douglas Crockford (ISBN-13: 978-0596517748)

Prerequisite

WDIM262 *Web Scripting: JavaScript*

Grading

Participation 10%

Assignments..... 40%

Quizzes 10%

Midterm 15%

Final Project 25%

A grades are given for work that is truly excellent. It goes beyond the minimum criteria set, and is excellent in terms of craftsmanship, creativity and effort. Student shows that they challenge themselves in project design. Student exhibits commitment to expanding ideas, vocabulary and performance.

B grades are given for work that is above average in quality, craftsmanship and creativity. It pushes a little beyond the minimum expectations.

Grading, Continued

C grades are given for work that is adequate. It meets the criteria set, by the minimum standards. Craftsmanship, quality and effort are average.

D grades are below the standards set. The student has either not exhibited an adequate understanding of the subject, or has not put forth the minimum effort. Craftsmanship and quality are poor.

Late Work

Email communication will be through eCompanion. Be sure to check your Profile in eCompanion to update your email address so that you will receive course communications in a timely manner.

Campus Email Policy

Plagiarism, presenting the writings, images or paraphrased ideas of another as one's own, is strictly prohibited at The Art Institute of Portland. Properly documented excerpts from others' works, when they are limited to an appropriate amount of the total length of a student's paper, are permissible when used to support a researched argument.

Tutoring

One-on-one tutoring is available to you across all subjects through the Tutoring Center at no extra cost. The goal of tutoring is to help you learn and master skills so you can then confidently apply them on your own. Tutoring is helpful for students at all levels. Our tutors are faculty or, most often, fellow students who have excelled in the subjects for which they tutor. You may find a tutor by visiting <http://tutoring.aidepartments.com/tutors>. If you need assistance email astevenson@aii.edu or drop by the Tutoring Center, just inside the Education Department.

Student Assistance Program

The college provides, confidential short-term counseling, crisis intervention, and community referral services through Talk One2One (888.617.3362) for a wide range of concerns, including relationship issues, family problems, loneliness, depression, and alcohol or drug abuse. Services are at no extra cost, available 24 hours a day, 7 days a week. If you have any further questions or are ever in need of immediate on-campus assistance, please stop by the Student Services Office on the 2nd Floor or email ddaby@aii.edu. Her phone number is 503-382-4836.

ADA Statement

The Art Institute of Portland provides accommodations to qualified students with disabilities. The Disability Services office assists qualified students with disabilities in acquiring reasonable and appropriate accommodations and in supporting equal access to services, programs and activities at The Art Institute of Portland.

Students who seek reasonable accommodations should notify the Disabilities Services Coordinator, Daynia Daby at ddaby@aii.edu or 503.382.4836, of their specific limitations and, if known, their specific requested accommodations. Students will be asked to supply medical documentation of the need for accommodation. Classroom accommodations are not retroactive, but are effective only upon the student sharing approved accommodations with the instructor. Therefore, students are encouraged to request accommodations as early as feasible with the Disability Services Coordinator to allow for time to gather necessary documentation. If you have a concern or complaint in this regard, please contact the Daynia Daby in Room 271, or call her at 503.382.4836. Complaints will be handled in accordance with the school's Internal Grievance Procedure for Complaints of Discrimination and Harassment.

Evacuation Procedures

Brewery Blocks: Please proceed to the nearest exit when the strobe lights flash and an audible alarm occurs. AiPD's evacuation location is around the corner on 10th between Everett and Davis; do not stand in front of the Armory or Deschutes Brewery - someone will come to tell you when it is safe to back in the building. **ALWAYS ASSUME ANY EVACUATION IS REAL.**

Park Blocks: Please proceed to the nearest exit when the strobe lights flash and an audible alarm occurs. The evacuation location is the large metal elephant located just west of the Culinary/Industrial Design buildings within the North Park Blocks between NW Park Ave. and NW 8th Ave. Someone will come and inform you when it is safe to come back into the building. **ALWAYS ASSUME ANY EVACUATION IS REAL**

Lab Policy

Leave food and drink outside the class. Disciplinary action will be taken toward any student found using the equipment in an inappropriate manner, taking cell phone calls or surfing the web. Disruptive, disrespectful or rude behavior will not be tolerated.

Plagiarism

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Attendance Policy for the Art Institute of Portland

Students who are absent from all scheduled classes over a 14-day period (2 weeks) are subject to automatic attendance suspension—from the Institute, not just from this course. This means the student is administratively withdrawn from all courses and cannot attend classes or continue in the current quarter unless he/she successfully appeals for reinstatement. Students who anticipate violating the attendance policy should contact their Academic Advisor or Academic Department Director immediately to discuss options such as withdrawing from the Institute or navigating the appeals process.

Adding, Dropping and Withdrawing from courses

Schedule Adjustment period: The schedule adjustment period runs through the first week of the quarter (ending at 5 pm on Monday of Week 2). To add or drop a course, the student must complete a schedule adjustment form, available from the Registrar's Office. The signature of the student's academic advisor is required to make any changes to the student's schedule.

Withdrawal (W/WF): The student who withdraws from a course or from the program during the first nine weeks of the quarter will be assigned a "W" code for each course. The "W" code is not used in computation of the student's grade point average; however, "W" credits are counted toward total credits attempted. The student who withdraws from a course or from the program after the ninth week of the quarter will be assigned a "WF" code for each course. The "WF" code is the equivalent of a grade of "F" and is used in computing the student's grade point average. Students wishing to withdraw from The Art Institute of Portland must file an official status change form with the Registrar.

Absences Policy

Regular attendance is required for successful completion of this course. A student who misses the equivalent of three (3) classes will not pass this class. Exceptions for extenuating circumstances will be considered at the discretion of the instructor, who must notify the Associate Dean and Registrar's Office of any such exceptions.

Final Exam Schedule

Class Meeting - Exam Meeting

Monday Morning - Monday 8:00 - 10:00 am
Monday Afternoon - Monday 12:30 - 2:30 pm
Monday Evening - Monday 5:30 - 7:30 pm
Tuesday Morning - Tuesday 8:00 - 10:00 am
Tuesday Afternoon - Tuesday 12:30 - 2:30 pm
Tuesday Evening - Tuesday 5:30 - 7:30 pm
Wednesday Morning - Wednesday 8:00 - 10:00 am
Wednesday Afternoon - Wednesday 12:30 - 2:30 pm
Wednesday Evening - Wednesday 5:30 - 7:30 pm
Thursday Morning - Thursday 8:00 - 10:00 am
Thursday Afternoon - Monday 2:45 - 4:45 pm
Thursday Evening - Monday 7:45 - 9:45 pm
Friday Morning - Tuesday 10:15am - 12:15 pm
Friday Afternoon - Tuesday 2:45 - 4:45 pm
Friday Late Afternoon - Wednesday 10:15am - 12:15 pm

Course Calendar

Week 1 (April 4, 2013)

Discussion

- Introduction to Epic JavaScript
- What can it do, what can't it do, and why?
- What *Object-oriented* is and why to use it
- jQuery the Great
- What's all this Asynchronous JavaScript and XML?

Assignment: *Diving*, due Week 2

Week 2

Assignment Due: Diving

Quiz: Quiz 1

Discussion

- Object-oriented JavaScript, in practice
- Implicit and Explicit Binding
- How Objects Interact

Assignment: *Objectified*, due Week 3

Course Calendar, Continued

Week 3

Assignment Due: *Objectified*

Quiz: Quiz 2

Discussion

- jQuery Events & Custom Events
- Loose Coupling
- Object-Oriented & jQuery, putting things together

Assignment: *Mock-up*, due Week 4

Week 4

Assignment Due: *Mock-up*

Quiz: Quiz 3

Discussion

- jQuery + Ajax
- jQuery UI

Assignment: *Midterm Project*, due Week 5

Week 5 (May 2, 2013)

Assignment Due: Midterm Project

Discussion

- Present Midterm Projects
- An Introduction to CoffeeScript

Week 6

Discussion

- Extending jQuery
- Mobile Development
- Coding Best Practices

Assignment: *Clean*, due Week 7

Week 7

Assignment Due: Clean

Quiz: Quiz 4

Discussion

- An introduction to Node.js

Assignment: *Final Project Proposal*, due Week 8

Week 8

Assignment Due: Final Project Proposal

Discussion

- Presentation of Final Project Proposals

Week 9

Discussion

- Final Project design critiques with Peter.
- Work on Final Projects

Week 10 (June 6, 2013)**Discussion**

- Final Project functional critiques with Peter.
- Work on Final Projects

Week 11 (June 10, 2013)**Assignment Due: Final Project****Discussion**

- Present Final Projects
- Discuss the Triumphs and Failures of Client-side Scripting