SCRIPTING FOR WEB AND MOBILE I

36-1420 (01) – 3 credits
9:00am Tuesday
916 S. Wabash Ave, 134

Interactive Arts and Media
Columbia College Chicago
916 S. Wabash Ave. Chicago IL
http://iam.colum.edu

Interactive Arts + Media

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Office/ Mailbox: *916 S. Wabash Ave. Rm: 101*
Office Hours: *by appointment*
Class portal: http://lms.colum.edu/

Dept. Phone: (312) 369 7750
Office Phone: *NA*
Home Phone: *NA*

Introduction: Scripting for Web and Mobile is a broad introduction to the technologies used in modern web development. While programming through JavaScript is a significant portion of this course, students will be introduced to other facets of web development including text editors, file-management, web servers, code-management, communication protocols, APIs and more. Through exercises, projects, quizzes and research, students will have solid foundation to take on advanced topics in web development.

Course Description: This course focuses on scripting for web and mobile applications, and is designed for students with no prior programming experience. JavaScript, markup, script libraries, and other tools and technologies will be used to create simple applications and prototypes.

Prerequisites: *LAS Math Requirement*
Instructional Resource Fee: $

Add/Drop and Withdrawal Dates:
- ***Monday, September 12:*** End of program revision and late registration, last day to add classes or change course sections
- ***Monday, September 19***: Last day to drop classes. The class will not appear on your academic record
- ***Monday, October 31***: Last day to withdraw from classes

At the conclusion of this course students will be able to:
- Demonstrate knowledge of responsive and participant-centered development for a range of devices.
- Use script libraries and open-source software to create software for web and mobile platforms.
- Develop applications using scripting language fundamentals.

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Course Work and Grading:
    In addition to the general work discussed above, your performance in this class is judged in part on participation, writing and critique assignments, exams, and the final project.

Assignments and Projects: Assignments and Projects are to be submitted via Oasis, or by the process indicated by the instructor, prior to the start of the class they are due. You may place a safety copy in the \\Siam2\ClassFolders\<class name>I "Drop" folder if you wish. If you do not submit the assignment at the time it is due, your grade on that assignment will be reduced as follows: 10% of your final grade on the assignment, per day. No assignment will be accepted over 1 week late. THIS IS A HARD AND FAST RULE -- NO EXCEPTIONS. No assignments will be accepted after the end of the last class. Problems with computers (printers or emails) do not suffice as explanation for late assignments. In the event that you email an assignment because of an absence, you must confirm receipt of that email and still turn in a hard copy to the instructor's mailbox upon your return to campus.

Course Work Percentage Breakdown

Assignment	Quantity	% of course
Practice Studies (based on lectures, materials, and web dev. concepts)	6	35%
Quizzes (comprehensive)	2	10%
Attendance, Participation, In-Class Exercises	Weekly	30%
Project Reviews (Midterm and Final)	2	25%

Please note that grades are assigned as follows:

A = 93 % and above	(930 points+)	C+ = 77 - 79%	(770 - 799)
A− = 90 - 92%	(900 - 929 points)	C = 73 - 76%	(730 - 769)
B+ = 87 - 89%	(870 - 899)	C− = 70 - 72%	(700 - 729)
B = 83 - 86%	(830 - 869)	D = 60- 69%	(600 - 699)
B− = 80 - 82%	(800 - 829)	F = 59% and below	(599 points and below)

The instructor is the final arbiter of all grades for the class. The instructor is the final arbiter of all grades for the class. Posted grades do not necessarily reflect the final grade you will receive in the class. Please note that the only grades given in this class are as follows:

Quality of Performance	Description	Grade
Excellent	The student has exceeded the high expectations of the course (excellent effort and products).	A, A-, B+
Good	The student has met the high expectations of the course (good effort and products).	B, B-, C+
Satisfactory	Acceptable achievement. The student has shown some effort and is showing growth, but is not meeting the high expectations of the course.	C
Poor	Minimal achievement (The student has not met the requirements of the class and must repeat the course, if required by their Major.)	C-, D

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| Failure | Inadequate achievement (The course must be repeated.) | F |
| Incomplete | See section on Incomplete Grade below. | Inc. |

Grade Requirements for Major: You are required to finish with a "C" grade or better if this class is required for your Major, or is a prerequisite for a class required by your major. If you do not, you must take this class again and cannot advance to the next required class.

Incomplete Grade: An Incomplete Grade (I) can only be issued for an undergraduate student who has met the following criteria: The student has successfully completed all course requirements to date but is faced with unexpected circumstances during the final weeks of the semester resulting in the inability to complete course requirements by the end of the semester. The student must have, in the instructor's estimation, the ability to complete missed course requirements outside of class and by the end of the eighth week of the following semester. The instructor must agree to evaluate the student's work and replace the Incomplete grade before the end of the following semester. An agreement specifying work to be completed and a due date must be signed by both instructor and student and approved by the Department Chair. In the event that an instructor is no longer employed by the College, a program Coordinator, Director, or the Department Chair can evaluate the work and assign the course grade.

Grade Challenges: A student has the right to appeal academic decisions that affect his or her record at Columbia related to grade changes, attendance penalties, and incomplete grades. Please consult the Academic Grievances sub-section of the Undergraduate Academic Policies section of the Columbia College Chicago 2014-2015 Course Catalog available at http://catalog.colum.edu/index.php?catoid=6 for information on the required process.

Academic Progress Report (APR)
During week 6 of fall and spring terms, Columbia College Chicago measures the academic progress of all undergraduate students. The academic progress report is meant to provide a sense of your performance at this point in time. For each course in which you are enrolled, you will receive one of the following reports from your instructor:
•   Exceeds basic expectations: Demonstrating performance at a very high level in the course, typically shown as consistent attendance, earning high grades on assignments and displaying a deep engagement with course content.
•   Meets basic expectations: Demonstrating behavior proven to produce success in college, such as consistent attendance, class participation, and on-time completion of assignments.
•   Does not meet basic expectations: Demonstrating behaviors known to put students at risk for failure, such as excessive absences, lack of class participation, and missed or incomplete assignments. While the academic progress report is not a final grade and will not affect your grade point average, it is a valuable indicator of your performance in the course to date. Columbia College Chicago is providing you with this report because it is committed to your success. You will receive the reports via email during week 6, and you are encouraged to discuss them with your instructor(s).

Mandatory Attendance Policy Statement:
Students are required to attend class regularly. Failure to attend class in the first two weeks of the term will negatively impact financial aid. If your professor reports that you failed to attend and participate in class during the add/drop period, a grade of NS (no-show) will be entered on your record for the course. Please note, you will still be charged tuition and fees for any course for which you receive a NS grade. For more information on non-attendance please visit the Student Financial Services website.

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Required Texts and Supplies/Materials

Required Texts –
- **http://eloquentjavascript.net/**
- ***http://youdontknowjs.com***
- ***http://learn.shayhowe.com/html-css/***

Additional or Background Reading –
- **https://developer.mozilla.org/en-US/**
- **http://learnlayout.com/**
- **http://marksheet.io/**

CLASSROOM POLICIES:

Email: All students are assigned a @loop.colum,edu email when they first register. This is the only email that instructors use to contact you about assignments, scheduling, or other classroom issues. It is your responsibility to check this email regularly for information. You can access you @loop.colum.edu email via a link at the bottom of the left hand column of the Oasis portal. (http://oasis.colum.edu) We recommend that you either check that email daily or forward it to an email account that you do check daily.

Backup and Archival Policy: Students are responsible for maintaining their own backup copies of all digital works. The Interactive Arts and Media department provides each registered student with server storage space as a courtesy and convenience, but does not guarantee access to that server space nor does it guarantee the safety of those digital files. Maintain your own electronic backup of your important files.

Additionally, as part of this class, you may be asked to provide all class work, documentation, proposals, and projects in electronic form on a CD or DVD-ROM on the last day of class. Your instructor will inform you if this is required, and of the specifics of the requirement.

Academic Honesty and Conduct: Academic honesty is expected of all students. Any inappropriate use of materials or plagiarism will not be tolerated. (See Academic Integrity Policies on pg. 18 of the Columbia Catalog.)

In line with Columbia's Student Code of Conduct, students are reminded that Columbia expects students to treat each other, faculty, and staff with respect. Harassment of any kind is forbidden, as is exposing students or faculty to material and images that might be considered offensive.

All work submitted in this course for academic credit must be your own original work, the original work of the group of students cooperating in a project, and/or adhere to all relevant copyright and intellectual property ownership laws. You are all responsible for your own work, and while consultation and discussion of course topics with other students is encouraged, submitting another student's work as one's own - in whole or in part - will result in a zero for that assignment for all students involved. Additional penalty for violation of this policy could be extended to include failure of the class or other disciplinary action at the discretion of the instructor, the department, or Columbia College Chicago.

For more information on the use of copyright material please consult the following sources –

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Copyright and Fair Use - http://fairuse.stanford.edu/
The U.S. Copyright Office - http://www.copyright.gov/
Digital Millennium Copyright Act - http://www.copyright.gov/legislation/dmca.pdf
Fair Use of Online Video - http://tinyurl.com/5gw89s (American University)

Attendance: Students are expected to attend every session and arrive on time, prepared for the class at the indicated start time. It is the Interactive Arts and Media departmental policy that a student automatically fails the class upon their third unexcused absence. (You are out on the third strike.) Two late arrivals (after the beginning of class) equal one absence. Lateness of more than one-half hour is the equivalent of an unexcused absence. Students leaving class early are considered late for the amount of time missed. Students who do not get to class before mid-class break, or do not return after the break, will be marked as absent for that session. Medical and other emergency leave of absences follow a different policy. Please contact your instructor if such a situation arises.

Students are expected to maintain communication with their instructor regarding their presence in class. Maintaining communication with the instructor allows that instructor the option of marking an absence as excused, rather than unexcused, at his or her discretion. All communication regarding an absence or lateness should occur before the session in question. Contact information for the instructor is at the top of this syllabus.

An absent student is still responsible for turning in all required assignments on time, unless a prior arrangement is made with the instructor. The instructor may, at his or her discretion, require make-up work or assignments in the place of missed class work.

Class Website and Blog Policy: As part of this class, you will be expected to create and maintain a class portfolio website or blog. This website should feature all of your in-class and homework assignments. It is your responsibility to maintain working links to all of these projects. These links will be used for grading the projects and a missing link will be considered the same as a missing assignment. You are responsible for insuring that a blog posting appears properly after submission. You are also solely responsible for the content of your class website and/or blog. (See the information on Academic Honesty and Copyrights in a preceding section.)

STUDENTS WITH DISABILITIES
Columbia College Chicago seeks to maintain a supportive academic environment for students with disabilities. Students seeking accommodations for a disability must register with the Services for Students with Disabilities (SSD) office. Once registered, a Columbia College Chicago accommodation letter will be provided to the student each semester. Students are encouraged to present their current accommodation letters to each instructor at the beginning of the semester so that accommodations can be arranged in a timely manner by the College, the department, or the faculty member, as appropriate. Accommodations begin at the time the letter is presented. Students with disabilities who do not have accommodation letters should visit the SSD office, Room 304 of the 623 S. Wabash building, call 312-369-8296, email SSD@colum.edu or visit colum.edu/ssd.
Counseling Services:

731 S. Plymouth Court, suite 112
312.369.8700 counselingservices@colum.edu

Services are designed to help students increase self-awareness and address mental health concerns with the goal of empowering students to manage challenging areas in their lives. All counseling services

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staff follow professional standards of confidentiality. Information discussed within a counseling relationship is not disclosed without written permission of the individual. Counseling Services are provided free of charge. The most utilized services include individual sessions, group sessions, and linkage to community services. A Columbia College student in a relationship with another Columbia College student, can also receive couple sessions. All currently enrolled students are eligible to receive 12 individual sessions per academic year. Group sessions are unlimited.

College Advising Center

623 S. Wabash, Suite 300
312-369-7645 / collegeadvising@colum.edu

The College Advising Center assists undergraduate students with all transitional issues as they navigate their entire college experience. College advisors guide students in creating and implementing an educational and professional plan as they progress from orientation toward graduation. As students take responsibility for their academic and career goals, they should meet with their college advisor on a regular basis. Students at Columbia are expected to meet with their college advisor at least once a semester during their first year.

LEARNING STUDIO

33 E. Congress, first floor
312.369.8130 www.colum.edu/learningstudio

The Learning Studio is an excellent resource for academic progress and success for all students at any level. The Learning Studio provides tutoring in a number of disciplines including Accounting, the Science and Math Learning Center, the Foreign Languages Lab and the Writing Center. Students are encouraged to go to the Learning Studio and work with the tutors. Students can make an appointment through Oasis (using the "Make Appointments" tab) or by calling the Learning Studio

Columbia College Library

The Library serves students with resources and support for research, study, collaboration, fun, and information in all formats—books, ebooks, articles, primary sources, images, film, music, space, programs, technology, and equipment. Our specialized materials and services focus on what students need and want—textbook reserves, study rooms, collaborative technology, maker lab, 3D printer, light boxes, scanners, equipment checkout (cameras, camcorders, projectors) and research assistance by chat, text, email, phone, or in-person. For more, see the website http://library.colum.edu/or drop by the Library (624 S. Michigan).

IAM OPEN LAB HOURS:
        Computer Labs: 916 South Wabash Rm: 122
        For lab hours and software inventory, see http://imamp.colum.edu/mediawiki/index.php/RM_122

SEMESTER SCHEDULE

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Coursework will consist of 6 assignments in the form of a study– straightforward, often open-ended exercises that allow you to explore and research technical methods through research and then employ and communicate them using interactive web development as a medium. Two quizzes will be administered before the Midterm and Final Critiques, respectively. Quizzes will be comprehensive, the first is curved and the second is in the form of an in-class essay. The Midterm and Final will be critiques of a project that you should be working on throughout the semester and they must employ and incorporate all of the topics and material covered up until the end of the semester. Guidance for choosing your semester-long project will be provided and reviewed as the semester progresses.

Class	Date	Lecture/Class Topics	Readings/Assignments Due
0	*Sept 06*	Intro to course, survey, review HTML/CSS, development tools, servers, network protocols, your course site, etc.	**Reading**: As assigned **Assigned**: 0th Study
1	*Sept 13*	HTML beyond the fundamentals, CSS Descendant Selectors, Color, Units, box-model, CSS typography. Introduction to Programming Concepts	**Reading**: As assigned **Due**: -- **Assigned**: Continue 0th Study
2	*Sept 20*	CSS classes, ID's and pseudo selectors. Naming conventions. Intro to JS value types, variables, operators, expressions.	**Reading**: As assigned **Due**: 0th Study **Assignment**: 1st Study
3	*Sept 27*	Media in HTML, Semantic HTML, CSS descendant selectors, backgrounds. JavaScript control statements, loops, conditions and programs.	**Reading**: As assigned **Due**: -- **Assignment**: Continued 1st Study
4	*Oct 04*	CSS attribute and combined selectors; Floating, positioning, box-sizing, and pseudo-elements. JS Functions, Objects, Events, and the dot operator.	**Reading**: As assigned **Due**: 1st Study **Assignment**: 2nd Study
5	*Oct 11*	CSS Inheritance, Media Queries, introducing the Document Object Model from HTML's CSS's and JavaScript's perspective.	**Reading**: As assigned **Due**: -- **Assigned**: Continue 2nd Study
6	*Oct 18*	CSS pseudo elements, CSS Transitions, Intro to DOM programming and manipulation	**Reading**: As assigned **Due**: Quiz, 2nd Study **Assigned**: Midterm Prep
7	*Oct 25*	Quiz recap, midterm critique and discussion, semester review, survey and next steps	**Reading**: -- **Due**: Midterm Review **Assigned**: 3rd Study
8	*Nov 01*	Working with data, HTML input elements, intro to DOM events and first-class functions.	**Reading**: As assigned **Due**: -- **Assigned**: Continue 3rd Study
9	*Nov 08*	Intermediate techniques: layout, typography and box-model. Continue DOM manipulation with intro to rules of scope and closure.	**Reading**: As assigned **Due**: 3rd Study **Assigned**: 4th Study

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10	*Nov 15*	Intermediate techniques: inserting and manipulating DOM content with events, Intro to code re-use and organization.	**Reading**: As assigned **Due**: -- **Assigned**: Continue 4th Study
11	*Nov 22*	Thanksgiving Week. Intro to API's and Online Tools, 3rd party data sources (API's). In class work.	**Reading**: As assigned **Due**: 4th Study **Assigned**: 5th Study
12	*Nov 29*	Intermediate techniques: Intro to timing with intervals and timeouts and dates.	**Reading**: As assigned **Due**: -- **Assigned**: Continue 5th Study
13	*Dec 06*	Intro to frameworks: DOM manipulation, drawing, programming, and other areas.	**Reading**: As assigned **Due**: Quiz (Essay), 5th Study **Assigned**: Final Prep
14	*Dec 13*	Quiz Recap, Semester Review, Final Critique and Discussion. Farewells	**Due**: Final Critique

NOTE: This syllabus is intended to give the student guidance in what may be covered during the semester and will be followed as closely as possible. However, instructors reserve the right in their discretion to modify, supplement, and make changes as course needs arise.
A copy of this syllabus is available electronically in the section for this class in Moodle. (http://lms.colum.edu/)

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