CSE/ISE 102: Introduction to Web Design and Programming

Stony Brook University, Spring 2017

Course Description

CSE/ISE 102 is an introduction to the design of Web pages, specifically the development of browser and device independent HTML, with an emphasis on the XHTML standards. Includes the use of style sheets (CSS) and tools for page layout and verification. HTML is presented as a markup language, exploring the rules of HTML elements and attributes. Students learn the separation of page viewing information from the HTML through CSS style sheets as well as the use of block layout without using HTML tables. The course addresses HTML display properties including text, color, image, and graphic elements as well as approaches to HTML validation and techniques. Additional topics include Web forms, client-side scripting using Javascript, and Perl CGI scripts.

Advisory Prerequisite: CSE 101 or basic computer skills

Course Objectives

• Develop the student's ability to create Web pages using validated HTML and XHTML standards.

• Introduce students to the use of Cascading Style Sheets for formatting the presentation of Web pages, and the principles of what makes good Web page style.

• Introduce students to effective page layout principles and the use of CSS positioning for effective Web page layout.

• Introduce students to WYSIWYG tools for creating well designed and organized Web sites.

Course Information

Lecture Meetings: Tuesday and Thursday, 2:30–3:50 PM, in Old Computer Science 2120

Textbook: *Learning Web Design, 4th Edition*, by Jennifer Niederst Robbins (O'Reilly 2012). Copies of the textbook are on 2-hour reserve in the Science and Engineering Library.

Course Software: Students are encouraged to use the free Brackets text editor from http://brackets.io. Students also need a (free, University-provided) Sparky Unix account with Web space in which to store their assignments.

Course Web Site: http://www.cs.stonybrook.edu/~cse102

All course materials, assignments, and grades will be posted on Blackboard.

Instructor Information

Instructor: Michael Tashbook (<tashbook@cs.stonybrook.edu>)

Instructor Office Hours: Monday, 3:00–6:00 PM, and Tuesday/Thursday, 6:00–7:30 PM, in New Computer Science 204. I am also available at other times by appointment.

TAs and TA office hours will be posted on Blackboard and the course Web page.

Important Dates

• 3/7: Midterm Exam (during class)

• 3/9: No class (Instructor out of town)

• 3/14–3/16: No class (Spring Break)

• 5/15: Final Exam (11:15 AM–1:45 PM, in CS 2120)

Grading Policy

Course grades will be based on a combination of:

- five homework assignments (25% total)

- five in-class assignments (10% total)

- one computer-based midterm exam (30%)

- one computer-based final examination (35%)

Final grades are **NOT** curved. See the course Web page for the letter grade cutoffs. See Blackboard for all grades.

Late Assignment and Make-up Exam Policy: Late submissions of the homework or in-class assignments will **NOT** be accepted for grading, barring a valid medical, religious, or other excuse (with documentation). Late submissions with a valid excuse may be accepted at the instructor's discretion, with an accompanying 50% penalty to the assignment grade.

Grade Challenge Policy: The TAs and I will endeavor to post grades as soon as possible after assignments/exams are submitted (normally within 7–10 days). Questions about or challenges to assignment or midterm exam grading **MUST** be made within **TWO WEEKS** of the grades being posted; after that period, grades are considered final for that assignment or exam.

Exam Policies: All students must bring photo ID to each exam. Students will not be admitted more than 10 minutes late to any exam. Make-up exams will be granted at the instructor's discretion, and **ONLY** for valid medical reasons (a doctor's note is required), for religious reasons, or for documented participation in University-sponsored events. Except for medical excuses, reasonable prior notification (at least 48 hours prior to the exam) to the instructor is **REQUIRED** in order for a make-up opportunity to be granted.

Policy on Electronic Devices in Class

Students are encouraged to bring laptops and tablet devices to class *for note-taking purposes only*. All communication and entertainment devices should be silenced or (preferably) turned off for the duration of the class unless otherwise directed by the instructor. No electronic devices of any sort, other than USB flash drives and the computers installed in the exam room, may be consulted or used during exams; this will be considered an instance of academic dishonesty, and will be treated as such.

Students With Disabilities

If you have a physical, psychological, medical or learning disability that may have an impact on your ability to carry out assigned course work, please contact the staff in the Disabled Student Services (DSS) office, 128 Educational Communications Center (E.C.C), Phone/TTY: (631) 632-6748. DSS will review your concerns and determine with you what accommodations are necessary and appropriate. All information and documentation of disability are confidential.

Students who require assistance during emergency evacuation are encouraged to discuss their needs with their professors and Disability Support Services. For procedures and information please visit **http://www.stonybrook.edu/ehs/fire/** and search Fire Safety and Evacuation.

Academic Integrity Policy

Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Any suspected instance of academic dishonesty will be reported to the Academic Judiciary. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website at **http://www.stonybrook.edu/uaa/academicjudiciary/** (Adopted by the Undergraduate Council 9/12/06)

Students who are found guilty of academic dishonesty will automatically receive a final grade of 'F' for the course.

Critical Incident Management

Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn.

Use of Email for Official Communication

Students, faculty, and staff are responsible for making sure they are receiving and checking for official University communications at their primary campus email address (@stonybrook.edu) on a regular basis, or making sure they forward their Stony Brook mail to a personal email account (Google Apps users only).

Tentative Course Calendar

Supplemental reading assignments will be posted on Blackboard as the semester progresses.

Week	Date	Main Topic(s)	Notes
1	January 24	Introduction, Web Basics	Chapters 1–3
	January 26	HTML Basics	Chapters 4–5
2	January 31	HTML Hyperlinks and Images	Chapters 6–7
	February 2	**In-Class Assignment 1**	
3	February 7	HTML Tables	Chapter 8; **Homework 1 due 2/7**
	February 9	Site Design, Information Architecture	
4	February 14	Cascading Style Sheets	Chapters 11–13
	February 16	Cascading Style Sheets, Part 2	Chapters 14-15
5	February 21	CSS-based Page Layout	Chapters 15–16
	February 23	**In-Class Assignment 2**	**Homework 2 due 2/24**
6	February 28	CSS Animation	Chapter 17
	March 2	Exam Review (in class)	
7	March 7	**Midterm Exam (in class)**	
	March 9	No Class (Instructor out of town)	
8	March 14	No Class (Spring Break)	
	March 16	No Class (Spring Break)	
9	March 21	Introduction to JavaScript	Chapter 19
	March 23	JavaScript, Part 2	Chapter 20
10	March 28	JavaScript, Part 3	
	March 30	**In-Class Assignment 3**	**Homework 3 due 3/31**

Week	Date	Main Topic(s)	Notes
11	April 4	HTML Forms	Chapter 9
	April 6	Perl and CGI Scripts	
12	April 11	Perl and CGI Scripts, Part 2	
	April 13	**In-Class Assignment 4**	
13	April 18	HTML5	Chapter 10; **Homework 4 due 4/18**
	April 20	Introduction to PHP	
14	April 25	PHP, Part 2	
	April 27	PHP, Part 3	
15	May 2	Other topics as appropriate	
	May 4	**In-Class Assignment 5**	**Homework 5 due 5/5**
Finals		**Final Exam** (Monday, 5/15, 11:15 AM–1:45 PM, in Old Computer Science 2120)	