

CSE/ISE 102: Introduction to Web Design and Programming

Stony Brook University, Fall 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 and client-side scripting using JavaScript.

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.

Stony Brook Curriculum TECH Learning Outcomes

Students who successfully complete this course will be able to:

- Demonstrate an ability to apply technical tools and knowledge to practical systems and problem solving.
- Design, understand, build, or analyze selected aspects of the human-made world. The "human-made world" is defined for this purpose as "artifacts of our surroundings that are conceived, designed, and/or constructed using technological tools and methods."

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). A copy of the textbook is available on 2-hour reserve in the North Reading Room of Melville 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: Tuesday and Thursday, 4:30–7:00 PM, in New Computer Science 204. I am also available at other times by appointment.

Important Dates

- 9/5: No class (Labor Day)
- 10/3: Midterm 1 (in class)
- 11/16: Midterm 2 (in class)
- 11/23: No class (Thanksgiving Break)
- 12/18: Final Exam (11:15 AM–1:45 PM, location TBA)

Grading Policy

Course grades will be based on a combination of:

- five homework assignments (5% each, 25% total)
- five in-class assignments (2% each, 10% total)
- two midterm exams (20% each, 40% total)
- one final examination (25%)

All grades will be posted on Blackboard. Final grades are **NOT** curved. See the course Web page for the letter grade cutoffs.

Late Assignment and Make-up Exam Policy: Late or improper 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 or improper 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 **ONE WEEK** 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 may be consulted or used during exams for any reason without the express authorization of the instructor;** this will be considered an instance of academic dishonesty, and will be treated as such.

Americans with Disabilities Act

If you have a physical, psychological, medical or learning disability that may impact your course work, please contact Disability Support Services, ECC (Educational Communications Center) Building, Room 128, (631) 632-6748. They will determine with you what accommodations, if any, are necessary and appropriate. All information and documentation is confidential. <http://studentaffairs.stonybrook.edu/dss/>

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. Faculty are required to report any suspected instances of academic dishonesty 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/commcms/academic_integrity/index.html

Students 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

| Week | Date | Main Topic(s) | Readings/Notes |
|--------|-------|---|--|
| 1 | 8/29 | Introduction, Web Basics | Chapters 1–3 |
| | 8/31 | HTML Basics | Chapters 4–5 |
| 2 | 9/5 | No Class (Labor Day) | N/A |
| | 9/7 | HTML Hyperlinks and Images | Chapters 6–7 |
| 3 | 9/12 | In-Class Assignment 1 | N/A |
| | 9/14 | HTML Tables | Chapter 8; Homework 1 due 9/15 |
| 4 | 9/19 | HTML Forms | Chapter 9 |
| | 9/21 | Cascading Style Sheets, Part 1 | Chapters 11–13 |
| 5 | 9/26 | Cascading Style Sheets, Part 2 | Chapters 14–15 |
| | 9/28 | Midterm 1 review | N/A |
| 6 | 10/3 | Midterm 1 (in class) | N/A |
| | 10/5 | CSS Page Layout | Chapters 15–16 |
| 7 | 10/10 | In-Class Assignment 2 | N/A |
| | 10/12 | Introduction to PHP | Homework 2 due 10/13 |
| 8 | 10/17 | PHP, Part 2 | N/A |
| | 10/19 | PHP, Part 3 | N/A |
| 9 | 10/24 | In-Class Assignment 3 | N/A |
| | 10/26 | Introduction to JavaScript | Chapter 19; Homework 3 due 10/27 |
| 10 | 10/31 | JavaScript, Part 2 | Chapter 20 |
| | 11/2 | JavaScript, Part 3 | N/A |
| 11 | 11/7 | In-Class Assignment 4 | N/A |
| | 11/9 | HTML5 | Chapter 10 |
| 12 | 11/14 | Midterm 2 review | N/A |
| | 11/16 | Midterm 2 (in class) | Homework 4 due 11/17 |
| 13 | 11/21 | JQuery and AJAX | N/A |
| | 11/23 | No Class (Thanksgiving Break) | N/A |
| 14 | 11/28 | JQuery, Part 2 | N/A |
| | 11/30 | Responsive Design | N/A |
| 15 | 12/5 | Other topics as appropriate | N/A |
| | 12/7 | In-Class Assignment 5 | Homework 5 due 12/8 |
| Finals | | Final Exam (Monday, 12/18, 11:15 AM–1:45 PM, location TBA) | |