



INFO 6150 Web Design and User Experience Engineering Fall 2025

Course Information

Course Title: **Web Design and User Experience Engineering**

Course Number: INFO 6150

Term and Year: Fall 2025

Credit Hour: 4

CRN: 17664

Course Format: In person

Instructor Information

Full Name: Fernando Augusto López Plascencia (he/him)

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Office Hours: Fridays, 4:00 – 4:30 pm, GSB 206

Instructor Biography

Professor López Plascencia has worked for more than 20 years in web development in both the USA and Mexico. Currently a Staff Software Engineer at Lyft, specializing in front end. Enjoys teaching and mentoring. Through his work he aims to create connections, propel others to become the best versions of themselves, and build things that work well for people. Other interests include Japanese culture and media, geography and maps, and the visual arts. His personal website is fernandolopez.dev.

Teaching Assistant Information

No TA will be available for the course this term.

Course Prerequisites

INFO 5100 (may be taken concurrently) with a minimum grade of B- or INFO 5100 (may be taken concurrently) with a minimum grade of B- or CSYE 6200 (may be taken concurrently) with a minimum grade of B-

Course Description

Exposes students to both conceptual and technical aspects of Web design. User experience design is the discipline of creating a useful and usable website or application that is easily navigated and meets the needs of both the site owner and its users. Covers Web standards and best practices. Studies the fundamental concepts, techniques, practices, work flows, and tools associated with the practice of user-experience design in Web interfaces. Offers students an opportunity to learn the core principles of information architecture, usability, marketing hierarchy, and user experience for contextual, value-driven

websites. Additional areas of focus include typography, color theory and composition, responsive design, CSS3 concepts, basic scripting, and JavaScript libraries to create functional, effective, and visually appealing websites.

Course Learning Outcomes

At the end of this course, you should be able to:

1. Understand how the web platform works;
2. Understand and apply user experience and usability best practices in the context of the web platform;
3. Recognize areas of opportunity in terms of user experience in the web platform and suggest or apply improvements;
4. Understand how the software development cycle is done in different instances of front-end web development, as well as best practices;
5. Create simple, front-end-based web applications using APIs as interfaces with a backend;
6. Continue their formation in front-end technologies and practices independently, if desired.

Required Tools and Course Textbooks.

No required text. Slides will be provided. The main literature is the Mozilla References and Guides at <https://developer.mozilla.org/en-US/>; other references will be posted per module in Canvas.

Course Schedule/Topics Covered.

Week	Class Date	In Class Topic	Work Due	Final Project Milestone
1	09/05	Intro to the Web		
2	09/12	Requirements, User Experience, Info Architecture	Assignment 1	
3	09/19	Design Principles	Assignment 2	
4	09/26	CSS basics	Assignment 3	
5	10/03	CSS layouts	Research Project 1	Final project discussed
6	10/10	Javascript basics	Assignment 4	
7	10/17	Usability and accessibility. Midterm	Midterm	
8	10/24	Javascript forms and inputs		
9	10/31	APIs	Assignment 5	
10	11/07	Modern apps. Business modeling	Assignment 6	Teams are set
11	11/14	React fundamentals	Assignment 7	
12	11/21	React advanced hooks. Typescript	Assignment 8; Research Project 2	
13	11/28	FALL BREAK, NO CLASS		

14	12/05	Open book final	Assignment 9; bonus credit assignment	
15	12/12	Final project presentations		Final project due

Assignment Grading

- Final project – 35% (350 Canvas points)
- 9 assignments – 25% (250 Canvas points)
 - 2 assignment worth 2% (20 Canvas points)
 - 7 assignments worth 3% each (30 Canvas points)
- Participation – 10% (100 Canvas points)
 - 2 research projects worth 5% (50 Canvas points)
- Midterm Exam – 15% (150 Canvas points)
- Final Exam – 15% (150 Canvas points)

Each component will be tracked in Canvas.

There is an optional, bonus credit assignment worth up to 5% (50 Canvas points).

Grading Scale

95-100% A	87-89.9% B+	77-79.9% C+	69.9% or below F
	84-86.9% B	74-76.9% C	
90-94.9% A-	80-83.9%B-	70-73.9% C-	

Attendance/Late Work Policy

Attendance Policy

Students registered in MGEN courses (INFO, CSYE, and DAMG) are allowed **a maximum of 2 absences per course, with 3 or more absences resulting in an automatic 'F' for that course.** Students are expected to inform their instructors of any absences in advance of the class; if a student is sick long-term or experiences a medical issue that prevents class attendance, it is strongly encouraged that they speak with their Academic Advisor (coe-mgen-gradadvising@northeastern.edu) to learn more about the Medical Leave of Absence. Should a student anticipate being unable to attend 3 or more classes, they should discuss their situation with their Academic Advisor to explore other types of leave in accordance with the University's academic and global entry expectations. International students should review the Office of Global Services webpage to understand their visa compliance requirements.

Teaching Assistants (TAs) or Instructional Assistants (IAs) will be present at each class to collect student attendance.

Late Work Policy

Students must submit assignments by the deadline in the time zone noted in the syllabus. Students must communicate with the faculty prior to the deadline if they anticipate work will be submitted late. Work submitted late without prior communication with faculty will not be graded.

End-of-Course Evaluation Surveys

Your feedback regarding your educational experience in this class is particularly important to the College of Engineering. Your comments will make a difference in the future planning and presentation of our curriculum.

At the end of this course, please take the time to complete the evaluation survey at <https://neu.evaluationkit.com>. Your survey responses are **completely anonymous and confidential**. For courses 6 weeks in length or shorter, surveys will be open one week prior to the end of the courses; for courses greater than 6 weeks in length, surveys will be open for two weeks. An email will be sent to your Northeastern University Mail account notifying you when surveys are available.

Academic Integrity

A commitment to the principles of academic integrity is essential to the mission of Northeastern University. The promotion of independent and original scholarship ensures that students derive the most from their educational experience and their pursuit of knowledge. Academic dishonesty violates the most fundamental values of an intellectual community and undermines the achievements of the entire University.

As members of the academic community, students must become familiar with their rights and responsibilities. In each course, they are responsible for knowing the requirements and restrictions regarding research and writing, examinations of whatever kind, collaborative work, the use of study aids, the appropriateness of assistance, and other issues. Students are responsible for learning the conventions of documentation and acknowledgment of sources in their fields. Northeastern University expects students to complete all examinations, tests, papers, creative projects, and assignments of any kind

according to the highest ethical standards, as set forth either explicitly or implicitly in this Code or by the direction of instructors.

Go to <http://www.northeastern.edu/osccr/academic-integrity-policy/> to access the full academic integrity policy.

Student Accommodations

Northeastern University and the Disability Resource Center (DRC) are committed to providing disability services that enable students who qualify under Section 504 of the Rehabilitation Act and the Americans with Disabilities Act Amendments Act (ADAAA) to participate fully in the activities of the university. To receive accommodations through the DRC, students must provide appropriate documentation that demonstrates a current substantially limiting disability.

For more information, visit <https://drc.sites.northeastern.edu>.

Outreach, Engagement, Belonging

Northeastern University is committed to fostering a community of belonging, which is essential to the advancement of Northeastern University's mission of teaching and research. Our university is stronger as a result of the varied backgrounds, experiences, and perspectives that all members of our global community bring to the pursuit of knowledge. Embracing this pluralism is not the work of one office, department, or academic unit. It is a shared responsibility that spans disciplines and boundaries. By harnessing the power of our differences, we will continue to light the path to bold new ideas and life-changing discoveries.

It is my intention that students from all backgrounds and perspectives will be well served by this course, and that the diverse experiences that students bring to this class will be viewed as an asset. I welcome individuals of all ages, backgrounds, beliefs, ethnicities, genders, gender identities, gender expressions, national origins, religious affiliations, sexual orientations, socioeconomic background, family education level, ability – and other visible and nonvisible differences. All members of this class are expected to contribute to a respectful, welcoming and belonging environment for every other member of the class. Your suggestions are encouraged and appreciated.

Please visit [Belonging at Northeastern](#) for more information.

Policy on Sexual and Gender-Based Harassment and Title IX

The Northeastern University [Policy on Sexual and Gender-Based Harassment and Title IX](#) articulates how the University will respond to reported allegations of Sexual Harassment, Quid Pro Quo Harassment, Sexual Assault, Domestic Violence, Intimate Partner Violence, Dating Violence, Stalking, Gender-Based Harassment and Retaliation, and provides a consolidated statement of the rights and responsibilities under University policies and Title IX, as amended by the Violence Against Women Reauthorization Act of 2013 and the U.S. Department of Education and Office for Civil Rights' revised regulations in 2020 to the Title IX of the Education Amendments of 1972 (Title IX), 20 U.S.C. § 1681. The policy describes how areas within the University will coordinate the provision of interim remedies and the prompt and effective investigation of allegations of Prohibited Offenses. This policy applies to all members of the University community, including students and prospective students, employees and prospective employees, faculty, staff and volunteers in connection with university activities. It further applies to on- or off-campus behavior

involving students. Please visit <http://www.northeastern.edu/ouec> for a complete list of reporting options and further information.