Web Software Development

CS 346 - Fall 2021

Instructor: Hannah Hillberg (She/Her/Hers)
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Office: Halsey 217
Office Hours: 10:20-11:20am MWF (In-Person)
             3:00-4:00pm TuTh (Virtual - Link in Canvas)

Course Information

Lecture: M   3:30-5:00pm   Halsey 202
Lab: W   3:30-5:00pm   Halsey 101C (except the first day of class 9/8 will be in Halsey 202!)
Credits: 3

Description: An introduction to the tools for developing internet applications. Topics covered include: Internet history, the HyperText Markup Language, graphic images and manipulation, multimedia, programming in the JavaScript and PHP languages.

Prerequisites: CS262 with a grade of C or better

Course Website: UWO Canvas (http://canvas.uwosh.edu)
You should check Canvas on a regular basis - it will contain lecture notes, handouts, assignments, announcements, and grades. I'll do my best to let you know when something new and important comes up, but it is your responsibility to check the website frequently for information that you might not get otherwise.

Required Textbook:
COMP SCI 346: Web Software Development, Online book by Zybooks.

Subscription Instructions:
1. Create an account at https://learn.zybooks.com. You are required to use your uwosh email as your login. You may need to also provide your ID number.
2. Enter zyBook code: UWOSHCOMPSCI346HillbergFall2021
3. Subscribe. A subscription is $58 and will last until December 31, 2021. Students will be able to subscribe until December 6, 2021.

Course Outcomes

Students should be able to do the following upon successful completion of the course:

- Explain the key concepts associated with internet architecture that facilitates web application development.
- Explain the basic components of web architecture and describe how web browsers and servers work in tandem.
- Describe a web engineering framework to support the development of web-based applications.
- Apply the web engineering process to the development of a moderately complex web application.
- Utilize an integrated development environment to construct and deploy a web application.
- Construct and validate web pages.
- Design and implement client-side application logic with selected scripting languages.
- Design and implement server-side application logic with selected technologies.
- Design and implement the model-view-controller architecture for web-based applications.
- Design and construct web pages that interact with persistent storage.
- Read and apply web standards to the design and creation of web-based applications.
- Identify trends in web technologies and develop an evaluation strategy for assessing emerging web technologies.
- Work effectively with a small team of web developers to produce a web application.

Course Activities

This course will be based on three components, namely

- participation and challenge activities
- weekly labs
- semester-long project

Your overall numerical grade for the course will be computed as the weighted sum of the component grades using the following weights:

Component	Weight
Project	50%
Labs	40%
Participation and Challenge Activities	10%

Labs

You will have (mostly) weekly labs. Labs are generally short tasks that are intended (with *focus*) to be completed within the lab class period. Labs will cover the material we cover in the previous lecture to ensure you are practicing the material.

Lab deadlines are firm, but sometimes things get busy or something comes up, so I'm giving you all **3 built-in lab extension days *total*** to use over the course of the semester. Submitting a lab after but within 24 hours of the deadline will use 1 *whole* extension day. Submitting a lab after a deadline plus unused extension days will not receive credit.

Project

You will have one semester-long project to complete in this course, divided up into several milestones. Details for the project will be provided near the beginning of the semester.

Your letter grade for the course will be computed as follows:

Numerical Score	Grade	Numerical Score	Grade
>=92	A	72–78	C
90–92	A-	70–72	C-
88–90	B+	68–70	D+
82–88	B	62–68	D
80–82	B-	60–62	D-
78–80	C+	<60	D

While this overall grading scheme is fixed, I will be happy to discuss any issue you may have with individual grades. If you notice a mistake or have a question regarding a specific grade, please come and talk to me as soon as possible. Do not wait until the end of the semester to bring up grading issues.

Academic Dishonesty

Academic dishonesty of any kind will not be tolerated. Unless otherwise stated, all assignments are to be completed ***individually***. ***Discussion*** of ideas and problems with fellow students is encouraged, but written/typed work to be submitted must be done individually. In certain circumstances, code fragments from the instructor may be provided to eliminate tedious coding or to provide a common framework for all students. All other code must be original. Online resources may be used to help you understand the material, but you may not copy online code nor can you "borrow" code from other students, past or present.

Any suspected academic dishonesty will be dealt with on a case-by-case basis. Any clarification of what does or does not constitute academic dishonesty must take place *before* you turn in questionable work. For clarification on what constitutes academic dishonesty, contact me or consult the printed policy in the UWO Student Discipline Code, Chapter UWS 14.

Diversity, Equity & Inclusion
Diversity drives innovation, creativity, and progress. At the University of Wisconsin Oshkosh, the culture, identities, life experiences, unique abilities, and talents of every individual contribute to the foundation of our success. Creating and maintaining an inclusive and equitable environment is of paramount importance to us. This pursuit prepares all of us to be global citizens who will contribute to the betterment of the world. We are committed to a university culture that provides everyone with the opportunity to thrive.

Building relationships and community is one of the most important goals of this University. To build community is to honor each person in terms of their identity. Each student in the course will conceive of their identity in different ways; important aspects of identity may include ethnicity, ability, sex, sexuality, gender, gender expression, gender identity, religious beliefs, political affiliations, and/or class, to name just a few. Thus, each of us, myself included, must honor each students' identity in all its complexity. We need to work on listening to others, taking up perspectives unlike our own, challenging our assumptions and finding a route toward understanding the similarities and differences between ourselves and others.

I am committed to creating an anti-discriminatory classroom climate in which all students feel safe, supported, and affirmed. I ask that everyone in the class join me in committing to the creation of a welcoming space free of discrimination, bullying, and harassment in which each student can find a sense of belonging.

Pronouns/Names
My personal pronouns are she/her/hers. If you feel comfortable, please feel free (but not required), to disclose to me your personal pronouns. I will do my best to use them. Please also respect your peers' personal pronouns in face-to-face and online interactions.

Bias Incident Reports
All participants in this course deserve to be treated with dignity and respect. This campus will not tolerate acts of discrimination, and the use of language that's sole purpose is to injure another does not reflect who we are as Titans. Civility is a campus value at UW Oshkosh. If an instance of bias occurs, either inside or outside the classroom, students are encouraged to fill out the Bias Incident report. http://uwosh.edu/police/bias-incident-report

Accessibility, Inclusion, Religious and Veteran Accommodations
I will provide, on a flexible and individual basis, reasonable accommodations to students who have documented disabilities that may affect their ability to participate in course activities or

to meet course requirements. Please consult with the Accessibility Center to create such documentation and develop a plan for reasonable accommodations to share with me. The Accessibility Center is located in Dempsey Hall 125. You are also welcome to contact the Accessibility Center at (920) 424-3100 or accessibilitycenter@uwosh.edu. For more information, visit the Accessibility website at http://www.uwosh.edu/deanofstudents/accessibilitycenter.

It is also the policy and practice of UW Oshkosh to create an inclusive learning environment. If there are aspects of the instruction or design of this course that result in barriers to your inclusion, please notify me as soon as possible. This includes religious holidays or other days of special religious significance that may conflict with course activities: I will honor your faith traditions and I will work with you to make necessary accommodations, provided that you notify me of the conflict as soon as possible.

Veteran, active duty, reserve, or national guard students with military-affiliated special circumstances (e.g., upcoming deployments, drill requirements, disabilities, VA appointments, etc.) should communicate these with as much notice as possible. I will work with you and / or put you in contact with the Veterans Resource Center at (920) 424-1804 or veterans@uwosh.edu or other University staff who are trained to assist you.

Classroom Mask Requirements
All students are required to wear an appropriate face mask that covers their mouth and nose when they are in the classroom. UWO procedure dictates that, during the COVID-19 pandemic, an instructor cannot begin class until all students are wearing a mask properly. If a student is non-compliant with the masking policy and also refuses to leave the classroom promptly when requested, the instructor is required to cancel class. Students responsible for class cancelation for these reasons will be referred to the Dean of Students office, and the student will be unable to attend class until they meet with the Dean of Students. The student may be dropped from the class by the Dean of Students.

Students who have a medical condition prohibiting them from wearing a face mask may present written documentation from their health care provider, stating that the individual cannot wear a face mask. Students must present this documentation to the Accessibility Center in the Dean of Students office. In these situations, face shields will be provided to that student through the Risk & Safety Office upon request from the Accessibility Center.