

CS 346: Web Software Development

Fall 2022

Instructor: Michael P. Rogers
Office: Halsey 214
Office Hours: M-F 2-3 PM, or by appointment
Email: rogersm@uwosh.edu
Phone: 920-424-1388 / 309-825-6454
Class Times: MWF 9:10 - 10:10 AM; Halsey 202 (M), Halsey 101C (WF)
Credits: 3

Prerequisites: A grade of C or better in CS 262.

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 language (for both client and server).

Course Website: if it happens in this course, it will be posted on UWO's [Canvas](#) site. [Set up notifications](#) to be alerted when announcements are posted, new assignments, quizzes, or notes are posted and graded, etc.

Required Textbook: ZyBooks

1. Sign in or create an account at learn.zybooks.com
2. Enter zyBook code: UWOSHCOMPSCI346Fall2022
3. Subscribe. A subscription is \$58. Students may begin subscribing on Aug 18, 2022 and the cutoff to subscribe is Dec 04, 2022. Subscriptions will last until Dec 31, 2022.

Course Outcomes: Upon successful completion of the course, students will be able to:

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

Assessments:

Category	%
Project	50
Labs	40
ZyBooks	10

Grade Scale:

%	≥ 92	90-92	88-90	82-88	80-82	78-80	72-78	70-72	68-70	62-68	60-62	< 60
Letter	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F

Project Due Dates:

Milestone	Description	Date
Elevator Pitch	A description of the website you will be building	10/7
HTML/CSS	Sitemap, HTML and CSS for all pages	11/4
Database	A functional database, connected to your website	11/23
Final Website Prep	The finished website, uploaded	12/11
Presentation	During class	12/12-16

Late Policies: Late submissions will not be accepted -- exceptions will be made for medical / personal issues (with a note from a doctor or from the Dean of Students Office).

Absences: It has been scientifically proven that the most significant factor for predicting student success is attendance (although whether this is truly causation or merely correlation is another question). Students should attend each and every class, and notify the instructor ahead of time if you will be absent. Attendance may be taken and factored into the Quizzes category.

Academic Integrity: You may discuss problems with other students, but the work you turn in for labs and your project, and answers to quizzes, will be your own. For code snippets that you use for your team project, the source of those must be clearly labeled in the comments. Failure to adhere to these guidelines will result in a 0 for the lab/project/quiz in question. For detailed information on what constitutes academic misconduct, please see the discussion of [UWS Chapter 14, Student Academic Disciplinary Procedures](#).

Accessibility: Your instructor is committed to ensuring a fair playing field. If you have a disability and need assistance (e.g., a note taker, certain seating, extra time to take tests, adaptive technology, etc.), please register with the Accessibility Center, and we will accommodate your needs.

Non-discrimination and Anti-harassment: Your instructor is committed to maintaining a harassment-free, welcoming classroom, and will not tolerate discrimination on the basis of race, religion, creed, color, sex, gender, identity/expression, ancestry, national origin, age,

marital status, relationship to other employees, sexual orientation, disability, veteran's status, membership in the military, arrest/conviction record, political affiliation, or any other protected status.

Feedback: Your instructor thrives on constructive feedback, especially during the semester: feedback provided via SOS will be too late to benefit you, so if you are having issues, please discuss them with me ASAP.