

Course ID/Name: Comp 405 Introduction to Web Design and Development

(rev 8/27/25)

Semester: Fall 2025

Instructor: Michael Jonas (**office:** room 141. **email:** mcy59@unh.edu)

Time and Location: Wednesday, 1:10 – 4:00pm, room 142

Office Hours: by appointment

Web Presence:

Website: <http://stem.unh.edu/mcy59/comp/405>

Course Description:

Students learn the fundamentals of how the Internet works, gain practice with foundational technologies that power websites and learn how to solve problems like a programmer. A significant portion of the course covers web front-end design and development; students create a website using HTML, and are introduced to JavaScript language and responsive web design techniques. Topics include Internet history and structure, legal and ethical issues. No prior programming experience is required.

Learning Objectives:

Students develop understanding of modern internet, the world wide web, and how a web browser bridges that divide. Students will develop skills in building web pages using HTML that can both display information and gather input from users. Students will also learn to control and modify web pages with JavaScript

Software Tools:

We will use a text editor and a web browser which most modern operating systems provide or are easily downloadable free of charge..

Student Work and Class Pedagogies:

Class will include both lectures and hands-on lab activity. Lectures will generally take the form of board presentation with questions and answers, although at times we may break into groups to take on a specific topic. The course is 4 credits for undergraduates and the expectation is a minimum of 3 hours engaged time per week per credit over 16-week semester (for graduate students it is 4 hours per credit).

Homework Assignments:

A total of 2 multi-part assignments, one at mid-semester, and one towards the end. All work is expected to be done individually.

Lab Work:

Some labs will be guided by the instructor whereas others, students will be given a task to solve in pairs or groups. Most lab work will translate to further assignments where student show individually what they have learned. Homework assignments will be reviewed upon completion and exam reviews will be held.

Schedule:

<i>Date</i>	<i>Class Topics</i>	<i>Lab Work</i>	<i>Assignment Due</i>
Aug 27	Class beings: <i>overview</i>	Lab 1	
Sep 3	Fundamentals: <i>internet, world wide web, browser</i> HTML basics: <i>structure of a webpage, HTML tags</i> Input and formatting data: <i>forms and their elements, building tables</i>	Lab 2	
Sep 10		Lab 3	
Sep 17		Lab 4	
Sep 24		Lab 5	
Oct 1		Lab 6	
Oct 8	Webpage demos	Exam review	Assignment 1
Oct 15	Exam 1		
Oct 22	Basics of JavaScript: <i>writing a function, simple calculations, interfacing with forms</i>	Lab 7	
Oct 29		Lab 8	
Nov 5	Choices & repetition in JavaScript: <i>using if and if/else, looping with for and while</i>	Lab 9	
Nov 12		Lab 10	
Nov 19	Solving problems with JavaScript: <i>formulas, equations, etc...</i>	Lab 11	
Nov 26	<i>No class, Thanksgiving Break</i>		
Dec 3	Game demos	Exam review	Assignment 2
Dec 10	Exam 2		

Grading:

10% Participation

Includes showing up to class on time, submitting assignments on their due dates

30% Labs

Lab work is done during classroom time

Point total is 10 out of 11 at 3 points each

30% Assignments

There will be 2 assignments at 15 points, with each assignment divided into:

A design document worth 4 points

Presenting your work in class worth 1 point

Core elements of your assignments worth 10 points

30% Exams

Two exams worth 15 points each

Policies

Academic Honesty and Collaboration:

Collaboration is supported in the classroom through lab activities. No collaboration outside the classroom is permitted. Note that homework assignments and tests you submit **must be entirely your own work**. Deviation from this policy will result in dismissal from the course.

See the University policy on **Academic Honesty** for more information.

Attendance:

Is mandatory and you will lose on class participation grade for absences. Since work is based off lecture and class activities it becomes difficult to do well with too many absences.

Late Assignments and Make-Up Exams:

Policies for late assignments and make-up exams are very strict and apply only in exceptional cases of student illness, accident, or emergencies that are properly documented. It is your responsibility to make arrangements with instructor before the deadline as soon as you are aware you will miss a deadline, exam or class. Unexcused late assignments are penalized 20% per day.

Use of Electronic Devices in Classroom:

Not allowed during examinations. Absolutely no cell phone use during class time.

Accessibility Services:

The University is committed to providing students with documented disabilities equal access to all university programs and facilities. If you think you have a disability requiring accommodations, you must register with Student Accessibility Services (SAS) office. The Student Accessibility Coordinator at UNHM is Jenessa Zurek (email jenessa.zurek@unh.edu).

Mental Health and Wellness

In partnership with The Mental Health Center of Greater Manchester, UNH Manchester offers free mental health sessions for students. For scheduling a session email unhm.advising@unh.edu.