SI 339 - Web Design, Development, and Accessibility- Winter 2021

Course Description
This course provides practical and theoretical coverage to learning responsive, accessible front-end programming for Web Design. Topics covered include HTML5, CSS3, JavaScript, APIs, and the POUR design principles of accessible design. We will not be covering server-side development in this course.

Learning Objectives
The purpose of this course is to provide students with all necessary skills for building and deploying web sites as well as utilize existing software tools. The Learning Objectives for SI-339 are to help students develop solid competency in:

- Understanding the interactions between web browsers and web servers using Hypertext Transport Protocol (HTTP)
- Understanding the importance of standards-based practices in web development
- Understanding the importance of separating structure and semantics from presentation, as well as how this is accomplished in professional web development
- Creating web pages using Hypertext Markup Language (HTML5)
- Styling web pages using Cascading Style Sheets (CSS3)
- Using JavaScript for basic validation, interaction, and API integration.
- Using other software tools to augment and review the syntax, semantics, and accessibility of your site.

After completing this course, students will have a working personal portfolio website.

Staff
Instructor: Dr. Colleen van Lent (she/her/hers)
GSIs: Bomi Shim (she/her), Ejike Anusiem(he/his)
REQUIRED COVID19 Syllabus Statement

For the safety of all students, faculty, and staff on campus, it is important for each of us to be mindful of safety measures that have been put in place for our protection. By returning to campus, you have acknowledged your responsibility for protecting the collective health of our community. Your participation in this course on an in-person basis is conditional upon your adherence to all safety measures mandated by the State of Michigan and the University, including maintaining physical distancing of six feet from others, and properly wearing a face covering in class. Other applicable safety measures may be described in the Wolverine Culture of Care** and the University’s Face Covering Policy for COVID-19. Your ability to participate in this course in-person as well as your grade may be impacted by failure to comply with campus safety measures. Individuals seeking to request an accommodation related to the face covering requirement under the Americans with Disabilities Act should contact the Office for Institutional Equity. If you are unable or unwilling to adhere to these safety measures while in a face-to-face class setting, you will be required to participate on a remote basis (if available) or to disenroll from the class. I also encourage you to review the Statement of Students Rights and Responsibilities, which includes a COVID-related addendum.

**U-M Wolverine Culture of Care can be found
https://campusblueprint.umich.edu/uploads/Wolverine_Culture_of_Care%20sign_8.5x11_UPDA TED_071520.pdf

What This Means For You In This Class.

In this class we will not have any face-to-face meetings. I have done my best to make this course available to you fully asynchronously - you do not need to be logged on at any specific time. That said, there are due dates and they must be met.

However, it is my hope that you will be able to take advantage of the collaboration opportunities I am building into the course. In order to support students and facilitate a sense of UMSI community, the discussion sections will be group-based. Students will work in teams with the supervision of an instructor. These teams can work together on challenge problems, homework, and their portfolios.
Lectures and Readings:

In the past the lectures were a comprehensive coverage of the readings. This year it will be expected that students complete all of the readings and the lectures will be highlights. Last semester all lectures will be prerecorded but based on survey feedback, this semester the Tuesday class meeting will be a traditional “live” lecture that I will record and post to Canvas. The Thursday lecture will be group office hours where I will take questions live.

The workload for this course will be approximately 8 hours per week. In the first half of the term that workload will probably be 4hr/4hr split between readings and lectures vs coding. As the term progresses there will be significantly less reading and more coding.

TL/DR: Attendance at lecture is not required and all Tuesday/Thursday lecture meetings will be recorded and posted to Canvas.

Discussion Sections*:

TL/DR: Attendance at discussion is not required, but you may ONLY attend the discussion section you are enrolled in.

Discussion sections will be an integral part of getting support in this class. All discussion sections will be virtual, but there will be multiple instructors at each discussion. Students will be placed into small groups and work together on tasks, including upcoming homework assignments. Our hope is that this arrangement will allow us to spend time with you in a smaller setting, while also providing you with a sense of community.

The links to the Zoom meetings will be listed in Canvas. The password for all meetings (if necessary) will be umsi.

Office Hours:

The original lecture time of Thursday morning from 10 - 11:30am will be used as a large group setting for office hours. I will answer questions that arose from discussion sections, take questions from the group, and/or spend the time checking in on students.

We will also be offering additional office hours. Office hours are a great time to ask questions about assignments, or simply stop by to say “Hi”. Typically, more can be accomplished in 5 minutes at office hours than 2 hours on email (which is why we don’t use email much in this course). Please realize that office hours will get crowded right before the due dates. Learn more about Office Hours: https://vimeo.com/270014784
Students who are waiting should feel free to help each other out. The most up-to-date office hours will always be listed in the 1st Canvas Quick Reference Repository. The times for office hours will be solidified by January 25th.

Communication:

TL/DR: The first place to get assistance is Piazza or Office Hours. The instructor mailing list should only be used if you do not get a response on Piazza, or the question is of a personal nature

Piazza:

Much of the communication for the course will be handled through Canvas and Piazza. **Students are expected to keep up with all email that comes to them from the course mailing list and check the channel on a regular (2x week minimum) basis.** Piazza is the preferred place to get help in the class and you must post there before emailing the instructors. It is completely acceptable and encouraged for a student in the course to attempt to help other students in the forums. The instructional staff will read all posts and correct any incorrect advice that one student gives another. Find our class signup link at: [piazza.com/umich/winter2021/si339001wn2021/home](http://piazza.com/umich/winter2021/si339001wn2021/home)

Instructors will check the boards each evening Sunday - Thursday.

Mailing List:

If you can not find an answer to your question on Piazza, please use 339Instructors@umich.edu for emailing questions. It is important that you use this email address and do not email GSIs directly. (Full discloser, if you do email a GSI it is expected that they will share the email with the other members of the staff.) If it is a personal matter, you can email Colleen directly at collemc@umich.edu. If you do not hear back from an email within 2 business days, do not hesitate to contact us again.

COURSE RESOURCES

- A laptop: if you do not have a laptop to use in class (whether because you have a desktop computer OR because you use University computers for your coursework), that is fine—but please let Colleen know by the end of the first week of class so we can make sure you have the same participation options.
- Readings: All of the readings are online. You can find the weekly reading assignments in the Modules section of Canvas.
Student Mental Health and Well-being

TL/DR - Don’t wait to seek out help! You are worth more than a course.

The University of Michigan is committed to advancing the mental health and wellbeing of its students, while acknowledging that a variety of issues, such as strained relationships, increased anxiety, alcohol/drug problems, and depression, directly impacts students’ academic performance. If you or someone you know is feeling overwhelmed, depressed, and/or in need of support, services are available. For help, contact Counseling and Psychological Services (CAPS) at (734) 764-8312 and https://caps.umich.edu/ during and after hours, on weekends and holidays or through its counselors physically located in schools on both North and Central Campus. You may also consult University Health Service (UHS) at (732) 764-8320 and https://www.uhs.umich.edu/mentalhealthsvcs, or for alcohol or drug concerns, see www.uhs.umich.edu/aodresources. For a more comprehensive listing of the broad range of mental health services available on campus, please visit: http://umich.edu/~mhealth/.

Students who need Accommodations

If you think you need an accommodation for a disability, please let me know at your earliest convenience. Some aspects of this course, the assignments, the in-class activities, and the way we teach may be modified to facilitate your participation and progress. As soon as you make me aware of your needs, we can work with the Office of Services for Students with Disabilities (SSD) to help us determine appropriate accommodations. SSD (734-763-3000; ssd.umich.edu/) typically recommends accommodations through a Verified Individualized Services and Accommodations (VISA) form. The preferred method for receiving VISA forms is via email. IMPORTANT: If you are having trouble working with SSD I am happy to accept requests without that documentation at the start of the term. I will treat any information that you provide in as confidential a manner as possible.

Students who require extra time on online assessments:

- Please contact the teaching team at the start of the semester if you require extra time for the assessments. This can be arranged very easily.

Online Accessibility and FAQ's: Novel Coronavirus COVID-19

Academic Integrity:

TL/DR:

- DO NOT send or receive code via email, text, DM, etc.
- DO NOT collaborate or discuss the assessments.
DO share your screen when receiving assistance, but not when giving assistance.

Collaboration
UMSI strongly encourages collaboration while working on some assignments, such as homework problems and interpreting reading assignments as a general practice. Active learning is effective. Collaboration with other students in the course will be especially valuable in summarizing the reading materials and picking out the key concepts. **You must, however, write your homework submission on your own, in your own words, before turning it in.** If you worked with someone on the homework before writing it, you must list any and all collaborators on your written submission. Read the instructions carefully and request clarification about collaboration when in doubt.

If you are an advanced student and are willing to help other students, please feel free to do so. Just remember that your goal is to help teach the material to the student receiving the help, not give them the answer so never share your code directly.

Plagiarism
You may incorporate selected code snippets from publications by other authors, but they must be clearly marked and attributed. The most important thing is to clearly describe what you needed to do to get the resource to work within your code.

*Any instances of cheating will result in a 0 for the assignment and the lowering of the final grade by one grade level.*

Required Assignments:
- **(400 pts) 4 Online Assessments (100 pts each)**
  - Each assessment will be open three times. The first attempt is the week of the related lecture, the second attempt is the week after the lecture, and the third attempt is during finals.
  - Each quiz is open from Monday - Friday but you have a time limit of 5 hours once you start the quiz. (The average time last year was under 2 hours.)
  - Only the highest score is saved.***(I need to update this manually though.)
  - You are encouraged to ask clarifying questions after an attempt during office hours, but we won’t tell you the answer.
  - The quiz questions come from a question pool so will be different each time.
  - The assessments must be done independently.

- **(800 pts) Homework Assignments (100 pts each)**
  - There will be 8 homework assignments.
  - Homework is always due on a Thursday at midnight but can be turned in until the following Wednesday at midnight. There is a 5% late penalty that is applied for
each partial day the assignment is submitted late. Please note, the instructional team is encouraged to not work on weekends so there will not be feedback during that time.

- Homeworks that utilize an autograder may be submitted up to 10 times. The autograders will open 1 week prior to the due date. If you are finished before that, you are welcome to email the link to me so I can debug the autograder!
- In some cases the autograders will award less than 100 points. The other points will be based on accessibility and other requirements. Make sure to upload any supplemental materials of these other requirements.
- At the end of the term you may waive the late penalty for one assignment. Just submit your request to the following form 339 Assignment Waiver Form by April 20th.
- In the event of an emergency, you may waive ONE homework assignment. Just submit your request to the following form 339 Assignment Waiver Form by April 20th. Note, you can not receive an A+ in the course if you waive an assignment.

- (250pts) Portfolio
  - There will be a progress check due March 25th worth 25 points + 10 points for peer reviews
  - There will be a 2nd progress check April 8th worth 25 points + 10 points for peer reviews
  - Students who want to earn an A on the portfolio must submit early and demo during the final discussion section of the term.
  - There is a 10% penalty per day for late submissions, starting at 12:05am.

The final version of the portfolio is CHALLENGING. If throughout the semester you relied heavily on office hours there is a good chance that you will not be able to complete portions of this. And that is okay. The expectation is that what you are submitting is YOUR work and ONLY your work. The GSIs will help debug some issues, but only at a high-level. If you are struggling with a requirement, you should skip it and come back to it later if you have the time.

Optional Components:

- (Up to 110 pts) Discussion section assignments/attendance (10 pts each)
  - To receive credit for the discussion section assignment you must attend the discussion and participate. You may not be more than 10 minutes late and/or leave more than 10 minutes early. Do not leave until you see that you have been marked as present.
  - To find out more about more about discussions, see How Discussions Work

- (Minimum 60pts) Participation
- Students who actively participate in discussions, polls, Piazza, and/or office hours will be eligible for participation points.
- There may be additional opportunities throughout the semester.

Optional components are not the same as extra credit. If you participate in a discussion you get 10 out of 10 points. If you do not participate, the component does not factor into your grade.

BUT WAIT!!! Colleen, some of these discussion sections are very important to introducing and promoting inclusion. **Why are they optional?** The readings are still required (and the material will be in the quizzes and the final project) but I want people to engage based on the importance of the material, not for points. Next semester I will probably move them into required.

Regarding extensions and transparency:

**TL/DR: Extensions have already been built into the course.**

Things happen. Deadlines are missed. People get sick. Married. Have a job interview. Studies have shown that lack of transparency in grading and requirements hurts certain populations in academia since some people feel more empowered to advocate (or negotiate) than others. **We are aware of this and for that reason have already built accommodations into the syllabus.** If you have an extreme medical or family care issue or other type of situation that may be an extraordinary circumstance, additional extensions will only be granted after you have worked with the UMSI academic advisors to come up with a plan to catch up.

Late enrollment

Students who enroll after the start date have 72 hours after enrollment to complete any required assignments. It is on the student to request access to these assignments on Canvas. Optional components can not be made up.

**Grading**

I do not curve - students will always benefit from helping each other. Grades will be based on percentage (not points) since every student may have a different total:

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***An A+ requires that all assignments be submitted - no waivers.
For Winter 2021 I am removing the “minus” grades. Also, any grades below a C will be recorded as No Record Covid (NRC).

Answers to FAQ

- Don’t post screenshots of the code. Posting complete answers to homework problems is not acceptable. If you do post a screenshot of an error message you need to include alternative text.

- Study groups are welcome and strongly encouraged, as is talking through any and all programming problems you encounter. However, if you feel you are either giving or receiving all of the answers and it is impacting your learning negatively, please break up your study group, and/or contact Colleen confidentially.

- Use of any solutions provided from previous semesters is not allowed and will be treated as plagiarism.

Regarding grading:
We grade all assignments with a strict rubric and the same rubric is applied to everyone. If you believe there is an error in the way you have been graded, please submit a regrade request to the via the Grade Check Request Form (https://forms.gle/Ers1Y158wbgnXeuT6). All regrade requests must be submitted within 5 days of grades being released.

Diversity and Professionalism (Taken directly from Shriram Krishnamurthi)

The lack of sufficient diversity is an important problem in computer science. In this course, we want to help improve the situation, not make it worse. The responsibility to do that lies both with us, the course staff, and with you, the students.

Be A Considerate UMSI Citizen

Every now and then I hear disturbing statements from students about how they have been made to feel uncomfortable in class or in the department. I don’t mean intellectual discomfort—e.g., the kind you might get from having a heated debate about a technical subject with a fellow student—but the personal kind. These range from inappropriate comments and invitations to unsolicited physical contact.

There’s a term for many of these behaviors: harassment. And let there be absolutely no doubt about this: harassment is against the law and it is completely against the norms of this course.
and this department. (See Michigan’s Office for Institutional Equity.) We—the university, the
department, and this course’s staff—have absolutely zero tolerance for it.

Some people might think the recipient should laugh it off, or they may make (or think) snide
remarks about political correctness or jokes about consent or what have you. They might think
people just need to grow a thicker skin or learn to take a joke.

Unfortunately, the subject of harassment (and that's what these remarks and actions are,
harassment, even if you decide you would classify them as jokes) is forced, by the nature of
classes and campus life, to be around the harasser. That can make them uncomfortable to the
point of wanting to stay away, or focusing more on the harasser than on what they are here to
learn. That hurts their education. That is not okay at all: the harasser has no right to steal their
hard-won education away from them. And often the harm goes much deeper: it hurts them
psychologically in subtle and long-standing ways. And that's why these are not laughing
matters.

I encourage you to think about this in positive terms. Your classmates are your colleagues.
Someday you may be each others’ start-up partners or co-employees; one of you may even be
the other's interviewer or boss. So start treating one another like professionals, and I mean that
in the best possible interpretation of that phrase.

In short: Be safe, be happy, and have fun without taking away anyone else’s.

About Course Staff
Professionalism and respect for diversity are not just matters between students; they also apply
to how the course staff treat the students. The staff of this course pledge to treat you in a way
that respects our differences. However, despite our best efforts, we might slip up, hopefully
inadvertently. When we do, please feel free to talk to us about it.

Sometimes, you may not be comfortable bringing this up directly to us. If so, you are
welcome to talk to utilize the UMSI Diversity, Equity & Inclusion feedback and reporting
resources. As a department, we will take all complaints about unprofessional or
discriminatory behavior seriously.

Discussing Problems
If you are running into personal difficulties in the course (e.g., being made uncomfortable by a
fellow student), by all means come talk to me at any time. If you are having difficulties in other
contexts and would like to talk about that, you are welcome to do so. In short, you are always
open to come talk to me if you are facing any such issues.
However, please note the following. Due to other positions I hold in the department and university, I am what Title IX calls a Designated Reporter. That means if you report a Title IX violation to me, I am required to report it to the university. This will result in you being contacted by a university official.

I realize that not everyone may want to involve university officials, at least not right away. If you want your conversation to be kept in complete confidence, you should instead talk to one of the many resources listed here.