Information Systems Department

University of Maryland Baltimore County

Baltimore Maryland 21250

IS 448 Markup and Scripting Languages
Fall 2023

Instructor: Name: Zehra Zaidi
                             Phone: 240-461-5594
                             e-mail: zzaidi1@umbc.edu
                             Course Delivery Site http://blackboard.umbc.edu
                             Office Hours: Fri 12:00 – 1:30 pm and by appointment:
                 https://calendar.app.google/k496R7e1y2eazgsP9

Meeting Times:
Section 1122: Wednesday 4:30pm – 7:00pm Classroom Janet & Walter Sondheim 209
Section 1213: Wednesday 7:10pm – 9:40pm Classroom ITE 458

Textbook: Sebesta, Robert. (2015), Programming the World Wide Web. Publisher: Pearson; 8 edition.

ISBN-10: 0-13-377598-4

ISBN-13: 978-0-13-377598-3

Course Description and Rationale:

IS 448 covers the history, theory, and practice of markup languages and their associated scripting languages. This course covers client-side web technology, such as JavaScript and server-side web technology, such PHP, markup languages, such as XML, and common databases used with web technology.

Prerequisites: You must complete IS247 or CMSC202 with a C or better.

Course Objectives:

At the end of the semester, a student completing the course should have
• ability to develop advanced HTML pages with JavaScript
• design and develop programs in advanced HTML with PHP and MySQL
• design custom markup languages
• design and develop a web application that implements client-side scripting, server-side scripting and database access capabilities.

Additional Resources

- ☷ W3schools: http://www.w3schools.com
- ☷ Links to online resources as posted on the course's Blackboard site

Attendance and Participation:

Regular and punctual attendance is expected of all students. In the case of absence due to emergency (illness, death in the family, accident), religious holiday, or participation in official College functions, it is the student's responsibility to confer with the instructor about the absence and missed course work.

Class Preparation and Student Success:

All of the reading assignments should be completed before the class in which the material is to be discussed. Students should expect that for every 3-credit hour course they are devoting at least 9 additional hours preparing and studying course materials which are required or suggested. Students should contact the instructor for additional information about how to best achieve the goals and meet the academic expectations for this course. Additional support may be available through university or department resources in order to guide students toward success.

Instructional Methods:

Instructional methods will be comprised of In-class lectures, discussion and programming labs. I will be using the blackboard site to post all notes, assignments, grades, and information relevant to the course. As a student, it is your responsibility to check the site on a regular basis. All homework and deliverable submissions must be made on blackboard on the designated date and time.
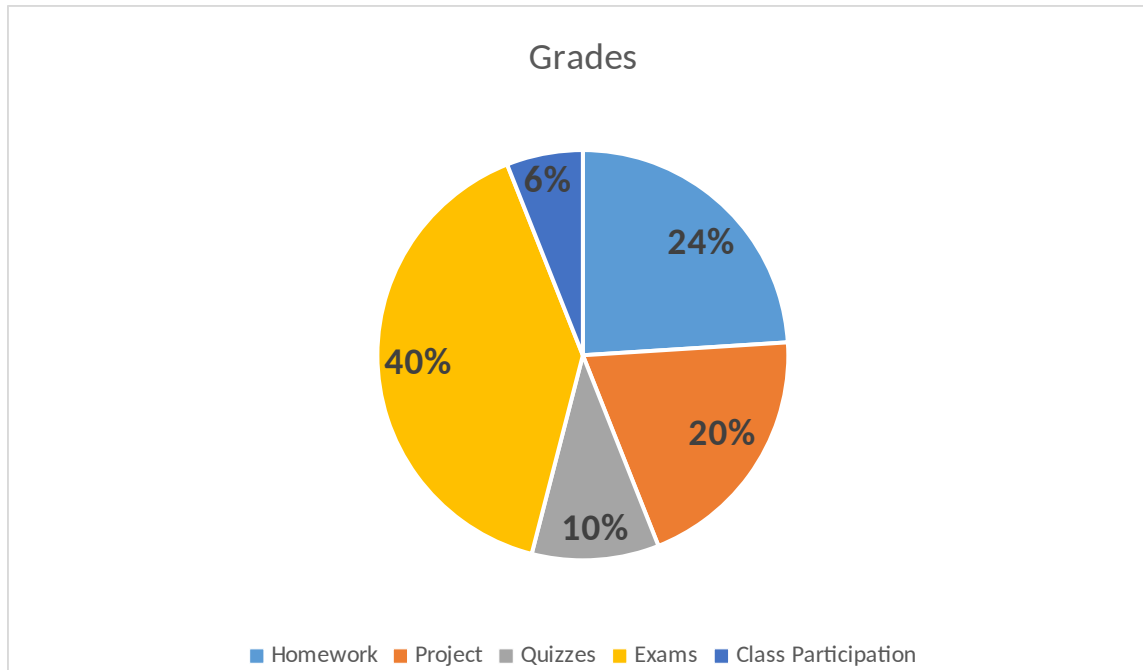
Course Requirements:

Regular Punctual Attendance
Class Participation
Quiz
Peer Evaluations
Exams
Homework

Grading:

Final grades will reflect academic achievement and not effort. Final grades will be based on scores received on homework assignments, exams, quizzes, group project deliverables and class participation as follows:

(3*8%) 24%	Homework
20%	Project
10%	Quizzes
(2*20%) 40%	Exams
6%	Class Participation

Grades

Homework — Project — Quizzes — Exams — Class Participation

24%
20%
10%
40%
6%

*Please Note that grades on Blackboard MAY NOT be weighted

- **(3*8%) 24%** <u>Homework</u>: Students will be expected to submit the assignments prior to class on the date they are due. Points will be deducted for late homework assignments (if you submit the homework after the class as started it will be considered late). To receive credit, homework assignments <u>MUST</u> be submitted on blackboard.

- **20%** <u>Project</u>: Students will work on a semester-long project in groups of 4 or 5 members. The project must present an entrepreneurial perspective where teams will be responsible to develop and design a start-up company. The team must propose a web application which will incorporate forms, interact with a database, client-side interaction with JavaScript and Ajax and server-side interaction with PHP.

  *Details for the project will be presented in separate document. The project will be comprised of various deliverables that will be due throughout the semester. Project Deliverables and due dates will be announced in the separate handout. A portion of the project grade will be attributed by your team via Peer Evaluations.

- **10%** <u>Quizzes</u>: All quizzes will be on-line and available on Blackboard. The quizzes will be based on slides and chapters of the textbook. All quizzes are to be taken individually and no group effort is allowed. **I WILL NOT be giving makeup quizzes**. A zero will be given for missed quizzes.

    o **Types of Question**: True or False, Multiple Choice, Fill in the Blanks

- o **Format**: Open Book, Online
- o **Number of Questions**: 10-15 questions
- o **Duration**: Timed quizzes – approximately 10-15 minutes
- o **Availability: Quizzes will be available the week before their due date**

*You are strongly encouraged to review all notes prior to taking the quiz. Quizzes should be taken individually and giving/or receiving help in these quizzes is a serious violation of proper academic conduct.

- **(2*20%) 40**<u>% Exams</u>: There will be 2 exams given through the semester. These exams will not be cumulative. I will only allow make up exams if the student as an excused absence (a doctor's note or advanced notice is required). The makeup exams will be given at my discretion. Exams will be given online.

- **6%** <u>Class Participation:</u> Class participation is inclusive of coming prepared to class with readings, participating in lab exercises, engaging in questions .

*At random times in the semester, students will be asked to submit their in-class lab programs at the end of class. These lab programs will be graded and will account to a portion of the class participation grade.

Class Participation can be improved by:
- Coming prepared to class with readings
- Participating in class lab exercises
- Participating in discussions

Class Participation will be reduced by
- Not being prepared with readings
- Not working on class lab exercises
- Leaving the class in the middle without letting the instructor know – I reserve the right to mark you as absent if you do not attend the entire class
- Tardiness
- Being rude to the instructor and other students' questions/comments

Course Policies

Attendance and class participation
Students are strongly encouraged to ask questions and participate in class activities. While attendance is not required, you are strongly encouraged to attend. If you miss a class, you are responsible for getting the relevant notes and handouts to help you prepare for the quizzes and

exams. Please come to class on time. Tardiness will affect your class participation grade. There will be in-class discussions and material covered in lectures that will not be available on the textbook and on the Web page. You will be responsible for that material in the quizzes and the exams. You are therefore strongly encouraged to attend all lectures.

Readings

The readings posted on the syllabus are assigned to students as reading materials. **Students are expected to read the readings posted on the syllabus for a particular class day before the class meeting.**

Late policy

The due dates are to be taken seriously and you should not expect them to be extended. However, there might be various circumstances because of which you may not be able to submit a particular assignment on time. Late assignments will always be penalized as it is not fair to the other students who sacrificed their sleep and spent time to submit the assignment on time. I also believe that a late assignment is better than no assignment.

With this in mind, the following late policy will be implemented in this course: **Late assignments will be penalized 10% off the total possible points if turned in within the first 24-hour period after the specified due date and time, and 5% per 24-hour period (or fraction of a day) (including weekends) after that time, up to three days after the due date. Late assignments will be accepted with penalty up to three days after the due date.** Assignments submitted at any later time will not be accepted. It is up to you to determine the version of your assignment to be graded. You must weigh the late penalty against the completeness of your assignment.

Re-grading Policy

If you are dissatisfied with a grade on an assignment/exam you should consult me directly **within one week of the day the graded assignment is returned to you**. No re-grade requests will be considered after this week period for both homework assignments and exams.

Cell Phones, Beepers, and Other Devices

All cell phones and beepers must be turned off during class ("vibrate" mode is okay). If you must make a call, please leave the classroom. If you disrupt the class, you will be asked to leave the classroom. An occasional email check is unavoidable and I understand this, but make sure you avoid browsing the web, instant messaging, using Facebook and other social networking websites, and excessive email checking while in class. I will know when you are engaged in these activities, and if I find your behavior disrupting, I will ask you to leave the classroom.

Getting Help: Questions and Concerns

Email is the BEST way to get in touch with me. I will try to answer your email as soon as possible. When I send out emails to the class on the class list, make sure you are receiving them. You are encouraged to use your UMBC e-mail account for all e-mail correspondence.

Inclement weather policy

In case of inclement weather, check the main UMBC Webpage (http://www.umbc.edu) to see whether UMBC is closed and classes are canceled. In the event of such cancellation on an exam day, I will reschedule the exam and announce the same to the students. If there is a deliverable due on that day, there will be no extension for the deliverable. You should still submit the softcopy of your deliverable on time. If the assignment has a hard copy deliverable, the due date for the hardcopy of your deliverable will automatically be before start of class on the day of the next class.

Tentative Schedule (subject to change)

A schedule of lecture topics, exams, and hw due dates will be maintained on Blackboard (Blackboard >> Syllabus >> Course Schedule). I reserve the right to adjust this schedule for any reason. If I do need to make any changes, I will make sure to inform you in advance. The updated schedule will be on blackboard so please look at it frequently

ChatGPT policy

As part of your learning journey, you are permitted to utilize ChatGPT solely for the purpose of identifying errors within your code. It is important to note that you are strictly prohibited from generating code using ChatGPT. You must properly cite the usage of ChatGPT for debugging when submitting your assignments. Additionally, please be aware that all student assignments will be run through a program to detect any similarities that might indicate the use of ChatGPT for code generation OR similarities with assignments submitted by your peers. Should there be reasonable suspicion of academic dishonesty or cheating, students involved will receive a score of 0 on the assignment and will be reported to the department for further action. I encourage you to approach this course with integrity and dedication, as the skills you acquire here will significantly contribute to your growth as a proficient programmer. Your commitment to maintaining academic honesty will be instrumental in fostering a fair and effective learning environment.

UMBC's Vision Statement
Our UMBC community redefines excellence in higher education through an inclusive culture that connects innovative teaching and learning, research across disciplines, and civic engagement. We will advance knowledge, economic prosperity, and social justice by welcoming and inspiring inquisitive minds from all backgrounds.

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Student Safety
In response to the COVID-19 pandemic, it is understood that some students who are enrolled in classes that have an in-person component may have or develop COVID-19 related health concerns coming to campus to attend those classes this semester. No student shall be compelled to attend class or attend an assessment if they have COVID-19 related health concerns. However,

for students enrolled in courses having a physical presence component who anticipate not being able to attend the in-person class sessions due to COVID-19 related health concerns, it is advisable to provide notice to the course instructor at the beginning of the term so that alternate arrangements can be made. Students enrolled in courses with an in-person component who develop COVID-19 related health concerns during the semester should immediately contact the course instructor to discuss alternative instructional arrangements.

Technology: Access, Requirements, Resources, Support

To help ensure that UMBC students are equipped for academic success, the Division of Information Technology (DoIT) provides a wealth of resources and support, including tips for getting online and minimum specifications to consider when purchasing a computer (doit.umbc.edu/students). UMBC does require all students to be technologically self-sufficient, which entails having a reliable personal computer (preferably a laptop with webcam) and Internet access. Since UMBC requires all students to have a computer and Internet access, financial aid may be used to meet this requirement. To learn more, students should contact their financial aid counselor at financialaid.umbc.edu/contact.

COVID-19: Safety Expectations and Guidelines

Students enrolled in this course are expected to adhere to all UMBC policies, rules, and regulations, including COVID-19 emergency health and safety rules, policies, guidelines, and signage enacted for the UMBC community. For students attending in-person classes, signage, policies, rules, and/or guidelines may include but are not limited to specific requirements for face coverings, physical distancing, and sanitization, in addition to efforts to reduce density efforts that involve reductions in seating and room capacity. Please be aware that UMBC's COVID-19 emergency health and safety rules, regulations, policies, guidelines, and/or signage are subject to change as our public health crisis evolves. Any violation will be subject to disciplinary action and may include but not limited to immediate dismissal from the classroom, removal from the classroom and/or campus, a requirement to work remotely, and/or sanctions and conditions enumerated in the UMBC Code of Student Conduct that may entail suspension or expulsion from UMBC.

Academic integrity in the Online Instruction Environment

Academic integrity is an important value at UMBC. By enrolling in this course, each student assumes the responsibilities of an active participant in UMBC's scholarly community in which everyone's academic work and behavior are held to the highest standards of honesty. Cheating, fabrication, plagiarism, and helping others to commit these acts are all forms of academic dishonesty, and they are wrong. Academic misconduct could result in disciplinary action that

may include, but is not limited to, suspension or dismissal. These principles and policies apply in both face-to-face and online classes. Resources for students about academic integrity at UMBC are available at https://academicconduct.umbc.edu/resources-for-students/.

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Resources to Help you Succeed in Online Courses

Many students need additional support to succeed in online courses. Click on the following links for helpful resources:

UMBC's Academic Success Center (ASC) provides a range of resources to support students as they progress toward degree completion. They will continue to offer all of their services online.

The ASC has created a specialized set of **Online Learning Resources**, including videos and guides to help students succeed while learning online.

In addition, check out the following resources:

- **Academic Success Center Resources** include: Online tutoring and writing support, supplemental instruction/peer-assisted study sessions (SI PASS), placement testing, FYI academic alerts, success courses, academic advocacy, academic policy and academic success meetings.
- **Tutoring and Writing Center Appointments** will be online; students can make appointments using this link.
- **SI PASS** Supplemental Instruction (SI)/ *Peer Assisted Study Sessions* (PASS). The SI PASS program targets traditionally difficult academic courses, providing regularly scheduled, out-of-class review sessions, happening in Blackboard Collaborate inside your existing Blackboard course.
- **Academic Advocates:** Advocates work one-on-one with students who need support navigating academic and institutional challenges, no matter how complex the concerns (i.e., personal, academic, or financial).
- **Academic Success Meetings** - Schedule a one-to-one virtual meeting with an Academic Success Center Professional who can help you with time management, study skills, and accessing campus resources.

If you have a question, please contact the ASC at academicsuccess@umbc.edu

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Enrollment Dates and Deadlines

Students must be familiar with the academic policies and enrollment dates and deadlines as published in the Undergraduate Catalog and the Academic Calendar. They are also responsible for managing their course enrollment(s) accordingly.

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Accessibility and Disability Accommodations, Guidance and Resources

The latest language is available on [the OEI website here](#). Mandatory due to legal requirements.

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Sexual Assault, Sexual Harassment, Gender Based Violence and Discrimination

The latest language is available on [the OEI website here](#). Mandatory due to legal requirements.

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Pregnant and Parenting Students

The latest language is available on [the OEI website here](#). Mandatory due to legal requirements.

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Religious Observances & Accommodations

The latest language is available on [the OEI website here](#).

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Hate, Bias, Discrimination and Harassment

The latest language is available on [the OEI website here](#).

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