Tentative Syllabus (The content may change during the semester)

CS 490WD/IT 490WD: Web Development   Credits: 3
                                                 CSEE - UMKC

Class Times and Room: MW 7:00 – 8:15 PM, 460 FH

Instructor: Dr. Mohammad Kuhail, **Email:** kuhailm@umkc.edu
TA(Grader): Tarun Shedhani , **Email:** tsmmf@mail.umkc.edu

Office: Flarsheim Room 450N, **Office hours:** MW 5:30-6:30 PM. Always send an e-mail (preferably a day before) before a meeting since I'm not always in my office.

Catalog description: The course covers several technologies that allow creating dynamic web applications: HTML, CSS, PHP, MySQL and JavaScript/AJAX.

Prerequisites:
CS 101

Dropbox Link: https://www.dropbox.com/sh/8okexzr9465s3bz/AABQryBNAyVkwuHyZCyMZoM3a?dl=0
(This folder is going to contain all the course materials, e.g. slides, tasks, quizzes, source code, etc.)

Textbook: *There is no required textbook.*
However, the following resources are suggested as references:

- **Books:**
[1] Learning PHP, MySQL, JavaScript, and CSS, 2nd Edition By Robin Nixon.
[2] PHP Cookbook, by David Sklar.
[3] CSS: The Definitive Guide, by Eric Meyer.
[4] HTML5 Up and Running, by Mark Pilgrim.

- **Online Resources:**
- [1] www.php.net
- [2] http://www.mysql.com/
- [3] http://www.w3.org/
- [4] www.w3schools.com

Course Goals and Learning Outcomes:

Students will be able to (1) write HTML-based web pages; (2) familiar with CSS rules (e.g. how to style HTML elements, how to style elements with specific classes and IDs. (3) Familiar with JS (e.g. how to validate forms using JS, how to write a photo album, how to interact with HTML elements through events. (4) familiar with databases (e.g. how to create tables, query tables, the different kinds of database relationships) (5) familiar with PHP code that connects to database, manipulates data (e.g. adds, edits, deletes data records).

Evaluation / Assessment Criteria and Grading:

Projects: Projects will involve problem solving skills and analytical thinking. Grades will be based not only on correctness, but also on style, documentation and efficiency.

Projects will be team-based. You can work on your own, but working in a team is highly recommended. All team members in a team-based project are expected to equally contribute to the project. Each team member has

to briefly describe their contributions to the project. Members who fail to contribute to the teams will be penalized. If you are having team problems (e.g. disputes about delegating the work, etc.), come see me and I will help you settle the issue. Just contact me soon enough.

Please start working on the projects as soon as they are announced so you will have sufficient time to complete them. Further, don't hesitate to consult with me your solution or if you have any questions.

Code Demonstration: I will demonstrate the source code in some examples with NetBeans 8 (the version that supports HTML, CS, JS, and PHP). I will post this code on Blackboard. It is imperative that you run the code yourself at home, trace it step by step, and make sure that you understand it. Download the latest NetBeans and Google Chrome. It is free for students. Consult with me if you have trouble running the source code. Also install WAMP/LAMP/MAMP on your machine (depending on the OS you have). This will help you run php and MySQL.

Assignments: Assignments help you understand the material. It is imperative that you work on them. Always feel free to contact me regarding assignments. There will be nearly one assignment per week except for exam weeks.
You can work in teams with up to three members. It is your responsibility to find team mates for your assignments. I will allocate teams for projects only. You can also work individually if you like.

Late Submissions: Projects and assignments will be due on Blackboard by the announced deadline. The penalty for missing deadlines is as follows:

- 5% grade reduction per day past the due date

No more than 7 late days will be granted for any assignment or project unless there are extenuating circumstances discussed with the instructor.

Quizzes (Extra credit): There will be up to 10 quizzes or more. **Students can earn up to 10 extra credits if they get a full mark in all the quizzes. You will take quizzes at the beginning of the lecture. If you take the quiz and leave the lecture immediately, your quiz won't count (unless you have an excuse you tell me about in advance)**

Attendance: Class attendance and participation is essential for success. However, it is not mandatory, but highly recommended. In the event that you are excused, it is your responsibility to clarify missed assignments with classmates or with me prior to the next class.

Grading
Assessment will be based on the following:

Projects	**40** points (3 projects, 1st project: 14 points, 2nd project: 12 points, 3rd project: 14 points)
Assignments	**20** points (the worst assignment will be dropped)
Midterm Exam	**20** points
Final Exam	**20** points
Quizzes	up to **+10** points

If you have a question about any grade received, you must see me or the grader within 10 school days of receiving the grade. After 10 school days have elapsed, no adjustment will be made to any grade.

At any point in time you to calculate your grade, you are welcome to send me an e-mail, and I will happily do that for you.

Final letter grades will be assigned according to the following scale:

A	A-	B+	B	B-	C+	C	D+	D	D-
93-100	90-92	86-89	80-85	78-79	76-77	70-75	66-69	60-65	57-59

Electronic Distribution of Files and Information

Course materials will be uploaded to Blackboard during the semester: documents, lectures, examples, homeworks, etc. You will also submit completed assignments through Blackboard.

Occasionally, I will use the announcements feature of Blackboard to post information. In addition, official communication may also be sent to your UMKC email account. Please be sure to check this frequently. Also feel free to talk to me immediately after class or during my office hours. When you send an e-mail to me, I will answer your email, normally within 24-48 hours.

Students are responsible to regularly check the announcement, documents and other uploaded materials and their UMKC email accounts. Failure to do so cannot be accepted as an excuse.

Course Plan:

Week	Week Of:	Topic
1	Jan 19	Introduction, HTML syntax
2	Jan 26	HTML tables, forms, lists, divs.
		HTML 5 (canvas, video, etc.)
3	Feb 2	CSS syntax (e.g. classes, ids, grouping, nesting)
4	Feb 9	CSS positioning, visibility, fonts, colors, opacity
		JavaScript syntax
5	Feb 16	Manipulating HTML and CSS using Javascript
		JavaScript Examples (Live search, photo album, keywords)
6	Feb 23	Recap, Midterm Exam
7	Mar 2	Database Design
8	Mar 9	MySQL queries
9	Mar 16	Introduction to PHP
10	Mar 23	Spring break
11	Mar 30	Connecting to databases, manipulating data
10	Apr 6	POST, GET
12	Apr 13	AJAX
13	Apr 20	PHP Sessions
14	Apr 27	PHP Cookies
15	May 4	PHP Classes, Recap
16	May 11	Final Exam Week

Policy on Access for Students with Disabilities: Students who have documented requirements for educational accommodations should identify themselves and meet with me after class or during office hours so that we can discuss how we may be able to maximize your potential for success in the class. If you suspect that you need educational accommodations, but you have not yet registered with the Office of Services for Students with Disabilities, please talk to me about your situation as soon as possible.

Policy on Student Civility: My commitment is to create a climate for learning characterized by respect for each other and for the contributions each person makes to class. I ask that you make a similar commitment.

- Please turn off and <u>store</u> all personal electronic communication devices including cell phones, pagers and smart phones during the lectures and labs.
- You do NOT have permission to make an audio or video recording of the lectures. Talk to me first if you want to record something.
- Please do not take the quiz and leave the class unless you ask for permission. If you leave after you take the quiz, your quiz will not count.

Policy on Student Conduct: Adherence to the Student Conduct Code is expected. A student enrolling in any UMKC course is expected to exhibit high standards of academic honesty. In the case of academic misconduct, I will assess the affected work and report the incident according to the guidelines printed in the catalog. The Vice-Provost may impose additional sanctions ranging from "Warning" to "University Suspension" to "University Expulsion." The rules governing any suspected violation are clearly spelled out in the UMKC catalog and will be followed to the letter

As part of the grading process, you may be asked to meet with the grader and/or me to answer questions about your programs. A student will be suspected of cheating if he/she cannot explain both the intricacies of his or her solution and the techniques used to generate that solution.

Persons observed cheating on exams or quizzes will receive a grade of 0 for the test/quiz.

All cases of suspected academic dishonesty will be reported, as noted above.