CS2830: Intro to Internet, WWW, and Multimedia Systems Syllabus F17

This course focuses on the development of web pages and web applications using the following strategies: HTML, CSS, JavaScript, jQuery, AJAX, PHP, and SQL. Topics such as cloud services, web servers, digital animations, images, audio and video, user interface design, and usability principles are also challenged.

Course Overview
- Location: Physics Building 114
- Time: TuTh 11:00am – 12:15pm
- Canvas: http://courses.missouri.edu and click on the Canvas link
- There are NO lab sessions associated with this class however there will be challenges given to be worked on outside of class.

Prerequisites
- CS2050 with a C- or better
- This course, CS2830, assumes you have a foundation in principles of programming and a familiarity with object oriented development. If you do not already have experience in programming, you will have a difficult time with this course. You do not need to have prior experience with PHP, JavaScript, SQL, CSS, or HTML. However, the assumption in learning these will be that you already understand the concepts of object oriented programming.

Getting Help and Assistance
- Programming bugs, programming questions, homework help, homework questions, grading questions, and any other questions or issues will be directed to the TAs.
- If all TAs are not able to help, the TAs will bring the matter to my attention, and I will respond to the TA who will then respond to the student.
- Meeting the instructor will be made through an appointment approved via email or at the designated office hours.
- Another great way to get involved is through the discussion board available on Canvas. There students can ask questions and other students can respond and discuss with each other. The TAs and instructor will try to response as well. However, the discussion board is not the correct way to get ahold of the TAs or the instructor.
- The proper way to get ahold of TAs or instructor is via email or in person.

Instructional Strategies
- This course uses Challenged Based Learning as its primary instructional strategy. How Challenged Based Learning works is covered in class.

Instructor's Expectations for Students
- Treat others the way you would like to be treated
- Be responsible for yourself, your work, and your actions
- Attend class, ask questions, engage in class, and ask for help
- Do NOT beg, bribe, or ask the Instructor or TAs to break class policy
- Plan and be responsible
- Be creative, curious, resourceful, proactive, and courageous
- Learn and Have Fun!!

Instructor
- Professor Wergeles
- Office: 103 Engineering Building North
  - *Engineering Building North (EBN) is called Old Student Health Center on MU Maps:*
    http://map.missouri.edu/index.html?bldg=37133
- Office Hours: TBA, will be posted on Canvas
  - *You can also schedule office hours by appointment.*
- Email: wergelesn@missouri.edu
- Mailbox: 201 Naka Hall (EBW)

Teaching Assistants
- Information about teaching assistants, their location and hours for office hours, and contact information will be posted on Canvas.

Course Details
- **Course Goal**
  - The goal of this course is to provide you with the foundation skills to create web pages, web applications, and work with digital media in a web/Internet context. This foundation will provide a base from which further skills can be developed. At the end of this course, you will be able to develop websites and web applications using the technologies listed in the course description.
- **Required Textbook**
  - NO TEXTBOOKS are required for this course. All required resources, such as materials and documentation, are available online. The online documentation is the replacement for the book, so there will be required readings, but the material will be available online. Feel free to buy books if you think they will be more helpful in your learning process for this course.
- **Assignments**
  - All assignments must be completed by the due date time to received credit.
  - You must fulfill the requirements of an assignment submission to receive credit for that assignment. Any information you are asked to provide and files you are asked to supply must be present to receive credit for the assignment. If you are asked to follow a specific procedure or utilize a particular convention you must do so to receive credit. For example, if you are asked to name a project in a specific way, "FinalProject.html",

and you do not follow the rules provided, by naming it "LastProject.html", you will receive a zero on the assignment. If you are unsure of what you are to do you must ask and receive clarification before submitting your work.

- **Attendance**
  - Attendance will not factor directly into your course grade although attendance is highly recommended and often rewarded.
  - **A sign-in sheet will be provided at each class so that attendance can be tracked.**
  - Poor performance in courses is often linked to not attending class. The sign-in sheet is used to maintain knowledge of attendance behavior so if there are performance issues the data is present to address the issue.
  - You must discuss missing class with the instructor **BEFORE** the event. Obtain an email from the instructor indicating the absence will be excused before the day is missed. You must sign the attendance sheet for your attendance to count. Do not say later that you forgot to sign the attendance sheet. Signing the attendance sheet is one of your responsibilities.

- **Out-Of-Class Videos**
  - Outside of class, I will be producing videos with other faculty and potentially students. The videos are intended to reinforce what we learn in class and provide you with the opportunity to take a closer look at a particular web topic. Some of your assignments may contain questions relating to these videos.

- **Grading**
  - The course grade is calculated as a weighted average of grades in five categories. In each category, a grade is earned as a percentage from 0% to 100% that is based on an equal averaging of items in that category. The percentage grade for each category is multiplied by the weighting percentage to determine the category's contribution to the total grade. The sum of contributions from the five categories yields the final grade.
  - Categories and Weights
    - Challenges: 30%
    - Quizzes: 10% (mostly on Canvas and some in class)
    - Midterm Exam: 20% (½ on Canvas, ½ in class)
    - Final Exam: 20% (½ on Canvas, ½ at final exam session)
    - Final Project: 20%
  - The midterm and final exams will have two parts. One part will be delivered as a test on Canvas. The other part will be delivered in class at the midterm or final exam session. Each part will be worth 50% of the total grade for that exam.
  - Grading Scale
    - A+ = 98-100%, A = 93-97%, A- = 90-92%
    - B+ = 88-89%, B = 83-87%, B- = 80-82%
    - C+ = 78-79%, C = 73-77%, C- = 70-72%
    - D+ = 68-69%, D = 63-67%, D- = 60-62%
    - F = 59% and below

Requirements

- **Code**
  - The web content created for class is to be based on HTML5 standards and must use CSS for layouts and styling of content. It is **NOT** acceptable to use tables for layouts or to use HTML tags that are not part of the HTML5 standards. The HTML and CSS must be well formed and used correctly. More about this requirement will be covered in class.
- **Hardware and Software**
  - You are required to have access to a computer that has a text editor such as Notepad++ on Windows or TextWrangler on Mac. Other text editors can be used such as Sublime, Brackets, and Atom. You will need to have a browser install on the computer, **the course recommended browser is Chrome**. It is highly recommended that you use your own computer in this course and you install the required software on it. Installation instructions will be provided on Canvas.
  - The required software is installed in the DoIT Windows computer labs across campus. Information about the computer labs can be found at:
    - http://doit.missouri.edu/services/computer-lab
  - The software should be installed at General Access Sites, Classroom Sites, Residence Hall Sites and Laptop Checkout Sites. If you find a location where the software is not installed report it to Dale Musser at musserda@missouri.edu. Do not wait until the assignment is due to find a site. If you are going to use a DoIT computing site, verify in advance that the software is installed. Lack of availability at a particular computing site cannot be used as an excuse for not completing an assignment.
  - **If you use a DoIT computing site** computer **BE AWARE** that the **files you create are erased when you log out of the computer.** You must save the files you create to some other storage, like cloud storage or external drive like flash drive, before you log out or you will lose them.

References

- Canvas
  - http://courses.missouri.edu and click on the Canvas [LOGIN] link
- The following are **some** of the sites that will be used during the course. Other sites are provided during the course.
  - HTML (Hypertext Markup Language) Tutorials
    - http://www.w3schools.com/html/
  - CSS (Cascading Style Sheets)
    - http://www.w3schools.com/css/
  - The W3C Markup Validation Service
    - https://validator.w3.org/
  - JavaScript (the programming language of the web)
    - http://www.w3schools.com/js/
  - jQuery (a popular JavaScript library)
    - http://www.w3schools.com/jquery/
  - AJAX (Asynchronous JavaScript and XML)

- ▪ http://www.w3schools.com/ajax/
    - o PHP (Server-side scripting language)
        - ▪ http://www.w3schools.com/php/
    - o SQL (Structured Query Language – relational databases)
        - ▪ http://www.w3schools.com/sql/
- *Note: Engineering Building North (EBN) is called Old Student Health Center on MU Maps: http://map.missouri.edu/index.html?bldg=37133*

Class Recordings Allowed with Prior Authorization from Instructor

- University of Missouri System Executive Order No. 38 lays out principles regarding the sanctity of classroom discussions at the university. The policy is described fully in Section 200.015 of the Collected Rules and Regulations. In this class, students **may make audio or video recordings of course activity with prior authorization** unless specifically prohibited by the faculty member. However, the **redistribution of audio or video recordings of statements or comments from the course to individuals who are not students in the course is prohibited** without the express permission of the faculty member and of any students who are recorded. Students found to have violated this policy are subject to discipline in accordance with provisions of section 200.020 of the Collected Rules and Regulations of the University of Missouri pertaining to student conduct matters.

University of Missouri-Columbia Notice of Nondiscrimination

- The University of Missouri does not discriminate on the basis of race, color, religion, national origin, sex, sexual orientation, gender identity, gender expression, age, disability or status as a protected veteran.

Intellectual Pluralism

- The University community welcomes intellectual diversity and respects student rights. Students who have questions or concerns regarding the atmosphere in this class (including respect for diverse opinions) may contact the departmental chair or divisional director; the director of the Office of Student Rights and Responsibilities (http://osrr.missouri.edu); the MU Equity Office (http://equity.missouri.edu), or equity@missouri.edu.
- All students will have the opportunity to submit an anonymous evaluation of the instructor(s) at the end of the course.

Dishonesty and Misconduct Reporting Procedures

- MU faculty are required to report all instances of academic or classroom misconduct to the appropriate campus officials. Allegations of classroom misconduct will be forwarded immediately to MU's Vice Chancellor for Student Affairs. Allegations of academic misconduct will be forwarded immediately to MU's Office of the Provost.

Classroom Misconduct

- Classroom misconduct is defined by the University of Missouri's collected rules and regulations are also outlined in the M-Book Student Code of Conduct.

- Classroom misconduct includes forgery of class attendance; obstruction or disruption of teaching, including late arrival or early departure; failure to turn off cellular telephones leading to disruption of teaching; playing games or surfing the Internet on laptop computers unless instructed to do so; harassment, bullying, physical abuse or safety threats; theft; property damage; disruptive, lewd or obscene conduct; abuse of computer time; repeated failure to attend class when attendance is required; and repeated failure to participate or respond in class when class participation is required.
- **IMPORTANT:** Entering a classroom late or leaving a classroom before the end of the period can be extremely disruptive behavior. Students are asked to arrive for class on time and to avoid early departures. Instructors have the right to deny students access to the classroom if they arrive late and have the right to dismiss a student from the class for early departures that result in disruptions.
- Under MU policy, your instructor has the right to ask for your removal from the course for misconduct, disruptive behavior or excessive absences. The instructor then has the right to issue a grade of withdraw, withdraw failing or F. The instructor alone is responsible for assigning the grade in such circumstances.

Academic Honesty
- Academic integrity is fundamental to the activities and principles of a university. All members of the academic community must be confident that each person's work has been responsibly and honorably acquired, developed, and presented. Any effort to gain an advantage not given to all students is dishonest whether or not the effort is successful. The academic community regards breaches of the academic integrity rules as extremely serious matters. Sanctions for such a breach may include academic sanctions from the instructor, including failing the course for any violation, to disciplinary sanctions ranging from probation to expulsion. When in doubt about plagiarism, paraphrasing, quoting, collaboration, or any other form of cheating, consult the course instructor.

Students with Disabilities
- If you anticipate barriers related to the format or requirements of this course, if you have emergency medical information to share with your instructors, or if you need to make arrangements in case the building must be evacuated, please let me know as soon as possible.
- If disability related accommodations are necessary (for example, a note taker, extended time on exams, captioning), please establish an accommodation plan with the Disability Center (*disabilitycenter.missouri.edu, S5 Memorial Union, 573- 882-4696*), and then notify me of your eligibility for reasonable accommodations. For other MU resources for persons with disabilities, visit ada.missouri.edu.

Title IX Information
- The University of Missouri prohibits all forms of sex or gender discrimination, including sex-based violence. If you or someone you know has experienced sex discrimination or been harassed or assaulted, you can get help at the Relationship & Sexual Violence Prevention (RSVP) Center, a confidential resource, at rsvp@missouri.edu or (573) 882-6638, or go to

www.rsvp.missouri.edu. You can also contact the Title IX Office (title9@missouri.edu; (573) 882-3880; or www.title9.missouri.edu). Mizzou employees are required to report all incidents of sex discrimination to the Title IX Office.