Fall 2022 Course Syllabus

Course Description: A survey of web-based technologies and applications. Topics include: ebusiness models, security and privacy issues, the provisioning, development, and deployment of web sites including dynamic web content generation and the management of database back ends, relevant copyright law.

Textbook: "Learning PHP, MySQL & JavaScript", Robin Nixon, 6th Edition, O'Reilly Media Inc, 2021. (The 5th Edition is also acceptable. See summary of differences on our course blackboard site. 4th Edition is also acceptable, though a little more outdated. Older editions are too outdated.)

Exams and Grades: There will be two tests, a final exam, quizzes, individual assignments, a team project, and a research presentation.

Test 1 15%
Test 2 15%
Final Exam 23%
Graduate student report and/or presentation 10%
Quizzes, Assignments and Project 37%

Standards of Conduct: Students are expected to conduct themselves in a professional and courteous manner, as prescribed by the Standards of Conduct. Students may discuss work assignments and programming exercises in a general way with other students, but the solutions must be done independently. Similarly, groups may discuss group project assignments with other groups, but the solutions must be done by the group itself. Graded work should be unmistakably your own. You may not transcribe or copy a solution taken from another person, book, or other source, e.g., a web page. Professors are required to -- and will -- report academic dishonesty and any other violation of the Standards of Conduct to the Dean of Students.

Disabilities: If you have a disability and need classroom accommodations, please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at www.sa.utep.edu/cass.

Faculty Information: Professor: Luc Longpré Office: 3.0420 CCS building Phone: 747-6804 e-mail: longpre@utep.edu Office Hours: Tuesday, Thursday, 3:00-4:00pm. See https://www.utep.edu/cs/people/longpre.html, select "Student appointments" for instructions on how to make appointments at other times.

Topics:

- History of internet, static vs dynamic web content, overview of HTTP, HTML, client side vs server side programming, MySQL, CSS. Basic HTML syntax for simple web pages. Web site design process.
- PHP: variables, operators, functions, scope, flow control, objects, arrays, I/O.
- MySQL: basics, database review, commands, indexes, functions, database design, accessing MySQL from PHP, passwords management.
- HTML Form Handling. Input checking, SQL injection attacks.
- JavaScript: variables, operators, functions, flow control, document object model. Cross-site scripting attacks.
- Validation and error handling. Importance for security.
- Ajax.
- CSS.