CMPS 3680 Server-Side Web

Lecture Classroom: Science III 311
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Office Hours: Mon, Wed 11:00am - 1:00pm
Fri 10:00am - 12:00pm
Office Room: Science III 339

Course Description
Current trends in server-side application development, configuration, and tools. Topics will include web servers, internet protocols, data interchange formats, information storage and retrieval, and security. Each week lecture meets for 100 minutes and lab meets for 150 minutes.

Prerequisites
CMPS 2010 with a grade of C- or better and CMPS 2680 or instructor approval.

Textbook
(Optional) PHP and MySQL Web Development, 5th Edition. Luke Welling, Laura Thomson
Online resources

Material Covered
HTML, Javascript, and CSS review

Introduction to Server-Side Web Development

Introduction to PHP

Server Side Includes

PHP Arrays and Strings

Processing Form Data

PHP Functions

Object Oriented Programming with PHP

Linux Administration and Web Servers

Introduction to APIs

Internet Protocols

Data Interchange Formats

Introduction to Server-Side Data Storage

SQL and NoSQL

Client/Server Data Validation

Security Risks

Attendance
It is recommended that you attend every class session and that you are not late to class. Lectures will begin at the class start time. This course is quite dense and covers a variety of concepts, so missing even one discussion or lab may set you back. **WE WILL HAVE A HEAVILY COLLABORATIVE LAB EACH TUESDAY AND I WILL BE TAKING ATTENDANCE!**.

Academic Integrity Policy

Do your own work. The use of any AI based tools for generating code and passing it off as your own is expressly forbidden. Violations are determined in accordance with the Department's policy on academic honesty.

Open Computer Lab and Tutoring

The walk-in computer lab in Science III is available for use by students in this course outside of class time on a first come/first serve basis. Priority in the lab is given to students who are completing assignments for Computer Science and Computer Engineering courses.

Tutoring is also provided on a limited basis in the walk-in lab. The tutors are not allowed to solve the assignment for you, but they can assist with problems like compiler errors.

Grading

Labs: 25%
Project 1:   25%
Project 2:   25%
Final Project: 25%

All labs, assignments, and projects are given equal weight unless stated otherwise.
This is subject to changes based on assessment of the class's academic progress and needs.

Homework & Labs

25% of your grade will be based on labs and in class activities. Late labs will not be accepted.
Extensions will be given for extreme circumstances on an individual basis.

Homework

Homework assignments will be assigned on the course website as needed and will mostly consist of reading/watching online materials. Homework assignments are not graded, however they provide you with additional material to enhance your learning and prepare you for labs and projects.

Labs (EVERY TUESDAY)

Due to the nature of this class, lab attendance will be required.
Labs will be worth 10 points and may include any of the following:
- DIALOGUE: Class discussions, Q&A sessions, information gathering
- CODING: Guided labs, group work, individual coding challenges
- WRITTEN: Surveys, quizzes

Midterm & Finals

There will be two midterm projects and one final project. Late projects will not be accepted.

Midterm Projects

Project descriptions and due dates will be announced promptly ahead of time. Projects will consist of fully developed web pages based on lecture material and lab assignments. For each project, you will have 2 weeks to complete the requirements. Each project will have a rubric for criteria and descriptions matching the achievement level. Partial credit will be given for incomplete projects.

Final Projects

Your final project will consist of a project proposal, fully developed web pages, and a short 5 minute presentation of your completed project. Unlike the midterm projects, the final project will be entirely up to you. The requirements for the final project proposal and the criteria for the project will be announced at a later time. Presentations will be held during the last week of lecture. Attendance for presentations will be required. If a final project is not submitted, then the student will not pass the course.

Assignment & Project Submissions

Initial assignments will be submitted by uploading your files to your public_html directory on odin.
Many of the later labs that involve more advanced server configuration will be heavily participation based.

Statement Regarding Accommodations for Students with Disabilities

To request academic accommodations due to a disability, please contact the Office of Services for Students with Disabilities (SSD) as soon as possible. They may be reached at 661-654-3360 (voice), or 661-654-6288 (TDD). If you have an accommodations letter from the SSD Office, please present it to me during my office hours as soon as possible so we can discuss the specific accommodations that you might need in this class.