CMPS 3680 Server-Side Web

Spring 2024

Lecture Classroom: Science III 311
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Office Hours: Mon, Wed 11:00am - 1:00pm
Office Room: Science III 340

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
Online resources

Material Covered
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
Web Servers
Introduction to APIs
Internet Protocols
Data Interchange Formats
Introduction to Server-Side Data Storage
SQL vs 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.
Many labs and exercises will be completed together in class.
Lectures will begin at the class start time. I may randomly take attendance for records but it does not count for points.
**Academic Integrity Policy**
Do your own work. The use of any AI based text-generation tools 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 - DUE WEDNESDAY BY MIDNIGHT!**
Lab assignments will be posted on the course website every THURSDAY. Labs will be worth 10 points and usually involve a number of small projects. Partial credit will be given for incomplete projects.

**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 receive an incomplete for the course. Details on submitting the final project will be posted.

**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.
You will place each lab and project in its own folder. This will be explained in more detail in class.

**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.