CIS 370 Server-Side Web Programming Spring 2015

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Office Hours:

Tuesday	11:00 to 12:00
Wednesday	2:00 to 5:00
Thursday	11:00 to 12:00

Other times by appointment

Prerequisites: CIS 270 – Client-Side Web Programming

Learning Outcomes: This course covers web programming focusing on the web server side of the client/server architecture. Students will learn the fundamentals of secure, dynamic, web application development using a popular development tool set. Topics covered include web server setup, database setup, model-view-controller architecture, session management, client/server interaction, and using the tool-set to develop expandable database driven web sites. After successful completion of this course the student will be able to:

1. Understand the use and implementation of a prevailing web development toolset.
2. Understand the interactions between web browsers, web servers, and database servers.
3. Develop database-driven, N-Tier client/server web applications.

All competencies will be measured through a series of hands-on assignments and in-class quizzes and exams.

Text: PHP and MySQL 2nd Edition by Joel Murach and Ray Harris, ISBN 978-1-890774-79-0.

Grading:

Assignments:	Approx. Points
Tests/Quizzes	210
Assignments	200
Total	410

Grade Scale:	
90% - 100%	= A
80% - 89%	= B
70% - 79%	= C
60% - 69%	= D
below 60%	= F

I will keep your grades up to date on D2L.

Examinations: There will be two tests and both tests will be worth 100 points and will be comprehensive. In addition, we may have one or more quizzes if I feel that they are necessary to measure your understanding of a topic area. If you arrive to class late on an examination or quiz day then you may not be allowed to take the exam – at a minimum, points may be deducted.

Assignments: There will be a number of assignments to provide concrete examples of the concepts covered in class. Most assignments will involve a combination of technologies such as HTML, CSS, JavaScript, PHP, and SQL. Each assignment will have a due date and must be turned in by the assigned time on the assigned due date to avoid penalties of 20% per day.

Most assignments will be published to web space on a university server (cisprod) and the source code turned in to D2L dropbox. Successfully turning in your assignments via this mechanism is part of the assignment. If you have technical problems turning in an assignment, e-mail me your code in one zip file before the assignment is due so we can resolve the problem and avoid late penalties. The best way to test that your assignment was turned in successfully is to go to a computer in the Becker Lab and start up a browser and navigate to your site on cisprod.

Honesty is the best Policy: The work in the course is designed to be completed by a student working alone. Some students work and learn better in groups. If you choose to work in a group (up to 3 students), you just need to clear it with me via e-mail at least 48 hours before it is due and turn in a single project with all names on it.

Working in a group is voluntary. No accommodations will be made for group dynamic or scheduling problems. All members of a group will receive the same grade. Do not put anything in your assignments that you cannot explain. Keep up with the reading and assignments. Please let me know if you need additional help.

Attendance: It is my belief that there is an immeasurable and intangible benefit to attending all classes and it is my job to make each class worth attending. This course will operate for the most part as a "Flipped Classroom". That means that I will pre-record the classroom lectures, code examples, and code walkthroughs and make them available as videos on D2L. The class meeting time will then often be spent in the computer lab working on your individual projects so you can get one-on-one help.

Although I encourage you to work at your own pace within the timeframe for each assignment, attendance at every class meeting is required until you turn in the final copy of your assignment. If you work with a group, I expect you to sit and work together in the lab.

If you might miss a unit test due to some very good reason, it is your responsibility to schedule a make-up with me **BEFORE** the test is given. Announced quizzes cannot be made up unless you schedule a make-up with me before the quiz is given. Pop quizzes cannot be made up for any reason other than a university-sponsored event. Even if you have car trouble at the last minute I expect a phone message or e-mail explaining the circumstances as soon as it is physically possible.

Cheating: Don't.

Class Conduct: Remember the golden rule. Don't come to class late or do anything else that is disrespectful to your classmates.

Special Services: Any student requiring accommodation for taking notes or tests or having a chronic illness should make arrangements, as early in the semester as is possible, to discuss his or her needs with me.

Tentative Schedule of Topics:

Topics Covered
Review of Client-Side Technologies
Box layout models and Site Navigation
PHP Basics and Web Server Setup
File Handling in PHP
Automated E-Mail with PHP
The Model-View-Controller Architecture
MySQL Integration with PHP
MySQL Security
Creating tables and loading data into MySQL
Reading and displaying data through your web site.
Adding, Changing, and Deleting Data
Session Management
Implementing User-Level Security Introduction to AJAX

Note: This schedule and other material on this syllabus are subject to change to meet the needs of the class.