

SPRING 2003

MGT 190 – 10 Web Systems Development

Schedule: Monday 2:00 PM – 3:50 PM (Lecture) – GOV 108
Wednesday 2:00 PM – 3:50 PM (Lab.) – GOV 108

Instructor:

Subhasish Dasgupta, Ph.D.

Office: MON 401 B

Office Hours:

Monday 4:00 – 5:00 PM

Tuesday 3:00 – 5:00 PM

And by appointment

Contact Information:

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Lab Instructor and Teaching Assistant:

Megan Cramer

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Course Description:

MGT 190 – Web Systems Development provides an overview of the technology of the Internet and the World Wide Web. The course summarizes web development methodologies and languages such as HyterText Markup Language (HTML), JavaScript, and open source technologies like PHP and MySQL. These tools and techniques are used in the development and implementation of a fully functional database-driven web site.

Prerequisites:

Prerequisite of MGT 190 is Mgt 119: Introduction to Computer Programming. Knowledge of database design and implementation (Mgt 121), and structured systems development (Mgt 120) is preferred.

Course Objectives:

The objective of this course is to broaden a student's understanding of the Web development tools and techniques. Students will acquire skills in requirements analysis, design, and implementation of Web Systems. Students will be able to work with the latest technologies in web development.

Required Text:

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Beginning PHP4 by Choi, Kent, Lea, Prasad and Ullman, Wrox Press, ISBN: 1861003730.

MySQL: Visual QuickStart Guide by Larry Ullman, PeachPit Press, ISBN: 0-321-12731-5.

Recommended Readings:

Programming the World Wide Web by Robert W. Sebesta. Addison Wesley.

Weaving a Website: Programming in HTML, JavaScript, Perl, and Java by Susan Anderson-Freed, Prentice Hall 2002. ISBN: 0-13-028220.

Method Of Instruction:

The course will consist of two components: lectures and laboratories. The class will meet twice a week during the semester, one day for a lecture and the other for a lab. All lecture notes will be available on Prometheus. You are expected to attend all classes, and will be responsible for assignments due on the days you do not attend class.

Grading:

The course grade will be a weighted average of lecture and laboratory assignments, a project, and two exams. The relative importance of the different components is given below.

Mid-term exam	20 %
Final exam	20 %
Project	40 %
Assignments	<u>20 %</u>
Total	100%

Exams:

There will be two exams in this course, a midterm and a final. Format of these exams will be provided in class. Exams will cover material from class lectures, textbook and assignments. The final will not be cumulative. There will be no make up exam, except for documented medical reasons.

Assignments:

Assignments will be of two types: homework and class. Homework assignments will be based on material covered in lectures, and computer lab. Homework assignments are due at the start of class. Most assignments will require electronic submission in the correct assignment folder on Prometheus. Late assignments should be submitted within 24 hours of the due date and time. These assignments will incur a penalty of half the assignment grade. No assignments will be accepted after the 24-hour period (I will check the time stamp given by Prometheus for all files posted). If you are away, and cannot attend class you may submit assignments electronically on Prometheus.

Class assignments include work that should be completed in the assigned class time. Some of these assignments may require use of software tools for the semester; the lab instructor for the course will give these assignments. In-class assignments may not be announced in advance. If you are absent on the day of a class assignment you will lose the entire assignment grade.

When assignments are returned, grades will be posted on Prometheus. Please check the Prometheus grade book to see whether these grades are correct. Questions regarding grading and grades posted should be addressed to the lab instructor or me within a week after the graded papers are returned.

Project:

The course will have one group project. Each group will be asked to choose a problem of their choice, and asked to provide a Web-based solution to the problem. The project deliverables will include a project document and presentation. At the end of the semester you will have to complete a peer-evaluation in which you will evaluate the contribution of each of your group members. Peer evaluation is required, and if you fail to evaluate your group members, you will lose your own evaluation grade. The project document will constitute 60% of the project grade, the presentation will be 20% and peer-evaluation will be 20% of the grade. If your group members provide a poor evaluation of your contribution, all components of your project grade will be affected.

Tentative Schedule:

The schedule of lectures below is subject to change with very little notice. Updated information will be available on our Prometheus site. The Lab. instructor or I may provide homework assignment information in class or on Prometheus. No prior notice will be provided for in-class assignments.

Session		Topic
Day	Date	
Mon.	1/13	Course Overview Syllabus, Evaluation
Wed.	1/15	No Lab.
Mon.	1/20	No Class – Martin Luther King Day
Wed.	1/22	Introduction to Web Systems Development
Mon.	1/27	Introduction to HTML
Wed.	1/29	Lab: Introduction to HTML
Mon.	2/3	HTML: Fonts, Colors, and Character Entities
Wed.	2/5	Lab
Mon.	2/10	HTML: Tables, Links, and Images

Wed.	2/12	Lab
Mon.	2/17	No Class – President’s Day
Wed.	2/19	Lab.
Mon.	2/24	HTML: Frames and Images, Cascading Style Sheets
Wed.	2/26	Lab.
Mon.	3/3	JavaScript: Introduction to JavaScript
Wed.	3/5	Lab.
Mon.	3/10	JavaScript: Arithmetic, Selection, and Iteration Statements
Wed.	3/12	Lab.
Mon.	3/17	Spring Break
Wed.	3/19	Spring Break
Mon.	3/24	JavaScript: Functions and Arrays
Wed.	3/26	Lab.
Mon.	3/31	JavaScript: Forms and Form Elements; String and Date Objects
Wed.	4/2	Lab.
Mon.	4/7	PHP/MySQL
Wed.	4/9	Lab.
Mon.	4/14	PHP/MySQL
Wed.	4/16	Lab. – Project Work
Mon.	4/21	PHP/MySQL
Wed.	4/23	Lab. – Project Work
Mon.	4/28	PHP/MySQL
Wed.	4/30	Group Presentations
Final Exam Week		Final Exam