IST 352: Internet Concepts and Applications
Fall 2006 Syllabus

Instructor

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Text

> Programming the World Wide Web
> Author: Robert W. Sebesta
> Publisher: © 2006 Pearson-Addison Wesley
> ISBN: 0-321-30332-6

Course Objective

To learn the basic concepts and various methods to extract and deliver dynamic information on the Internet/World Wide Web. This class uses a hands-on approach in which students actively develop Web-based software applications.

Prerequisite IST 211/286 Web Development and Design.

Class Attendance and Participation

You are expected to attend all classes, be on time, and participate in classroom discussions and exercises. If you are absent, it is your responsibility to obtain any class material and announcement.

Planned Learning Outcomes

1. Understand basic terminologies of the Internet and the World Wide Web.

2. Be able to create dynamic client-side programs with JavaScript.

3. Understand the differences of using various client-side technologies such as JavaScript and Java Applets.

4. Understand basis of XML

5. Be able to construct XML documents associated with DTD (Document Type Definition) and XSLT style sheets.

6. Understand the differences of using various server-side technologies such as CGI and PHP.

7. Be able to create client-side programs with CGI (Perl).

8. Be able to create client-side programs with PHP.

9. Be able to create simple applications of Web accessible database.

Homework Assignments

The homework is expected to be done with **individual efforts**. You may discuss the homework with your peers or seek help from others. However, you need to write up the assignments all by yourself with your own codes, procedures, and results.

Homework assignments will be given throughout the semester and are due at the beginning of class period. Any late assignments will receive 25% reduction if 1 day late and 50% reduction if more than 1 day late. Homework assignments will not be accepted more than 3 days after due date.

Review Questions

Specific review questions will be assigned at the end of each chapter. These may or may not be collected for a grade but will be discussed in class. All test questions will come from this question pool. You are expected to have the questions completed so that you can participate in the discussion in class.

Quizzes

Quizzes may be given throughout the semester in regular class meetings. No make-up quiz will be given. The lowest 4 quiz scores will be dropped. This allows you to miss a few classes without the quizzes affecting your grade.

Tests and Final Exam

Review questions and terms will be used to create the tests. Tests will be 100 points each. You can make up the tests, but it is strongly discouraged. The make up tests will be all open-ended short answer and essay questions. They will not be the same as the regular tests.

Grading

Grades will be assigned as follows:

$$A = 90\% - 100\%$$
$$B = 80\% - 89\%$$
$$C = 70\% - 79\%$$
$$D = 60\% - 69\%$$

Syllabus

Week	Month	T R	Topic	Reading
1	Aug	22, 24	Review of Syllabus. Introduction Internet and World Wide Web and XHTML	Ch 1 & Ch 2
2	Aug	29, 31	Cascading Style Sheets	Ch 3
3	Sep	5, 7	Assignment 1, **Test 1**	
4		12, 14	JavaScript	Ch 4
5		19, 21	JavaScript and HTML	Ch 5
6		26, 28	Dynamic Documents with JavaScript	Ch 6
7	Oct	3, 5	JAVA Applets, Assignment 2	Ch 7
8		10, 12	**Test2** Introduction to XML	Ch 8
9		17, 19	Server Side Programming, Perl	Ch 9
10		24, 26	Perl for CGI	Ch10
11	Oct/Nov	31, 2	**Test 3,** Assignment 3	
12		7, 9	PHP	Ch12
13		14, 16	PHP (Continued)	
14	Nov	28, 30	**Thanksgiving Holidays** ASP.net, Database Access through the Web	Ch13 Ch 14
15	Dec	5, 7	Assignment 4, **Test 4 (Final)**	Ch14
16			**Final Exam Week**	nothing

Notes:

The syllabus is tentative and subject to change. Any change will be announced in class and/or on the Blackboard class website.

Students need to bring to my attention conflicts of scheduled exams and any religious and other holidays they wish to observe prior to the 3rd week of the class.

Disabilities

Any student who has a disability should contact Disability Support Services (dss@umr.edu), who will work with the instructor to accommodate the disability and ensure that we provide students with equal educational opportunities.

Academic Dishonesty

We shouldn't need this, but I've been encouraged to state a policy. Any student caught cheating or plagiarizing (using improper material or not giving credit properly) or providing improper assistance to another student will receive a 0 score on the given assignment, quiz, or test. A memo describing the incident will also be placed in the student's permanent academic record. A second incident will be submitted to the Student Discipline process, with a recommendation that the student be given an "F" for the class. The given assignment, quiz, or test will not be accepted at all (with consequences for grades).

Reference:
UMR Student Handbook:
http://campus.umr.edu/studentlife/involvement/UMR_Student_Handbook.pdf

Student Standard of Conduct: page 106.
Procedures for Dealing with Student Conduct Violations: page 108.