

A348/A548 Mastering the World-Wide Web

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Fall Semester 2004

Abstract

This is the syllabus for for the Fall 2004 semester of A348/A548 Mastering the World-Wide Web. Textbooks, assignments, exams and grading details are provided, as well as contact information for the primary instructor and the AIs. A schedule of office hours will be posted soon.

Schedule of Classes

You are responsible for attending a lecture and one lab every week. The lecture meets Tuesdays and Thursdays between 5:30 and 6:45pm in LH102. Labs are scheduled Wednesdays at 4:40pm (LH115) and 5:45pm (LH115), and Thursdays at 3:35pm (SE045) and 4:40pm (HP154). If enrollment doesn't go up we'll try to see if we can't combine the labs somehow by encouraging everyone to attend the Wednesday LH115 sessions.

Textbooks

The bookstore has the workbook for this class. It is a custom project with Wiley entitled *The (mostly) Open-Source Web*. We're going to use this set of notes this semester as a guideline and follow it thoroughly.

Assignments

There will be seven homework assignments:

	What	When Due
1.	Installing Apache	Sep 8
2.	Programming CGI/Perl	Sep 17
3.	Database Design and Programming SQL	Oct 22
4.	Programming PHP	Oct 6
5.	Programming with DHTML	Oct 29
6.	Server-side Java: servlets	Nov 11
7.	Server-side Java: JSP	Nov 18

Assignments will be turned in on-line (you are the webmaster). In addition you will be graded for each lab (for a total of about 12 lab assignments).

Labs and Lectures

- Week 1 (Aug 31-Sep 3) HTML, Apache, Unix (pp. 13-32).
- Week 2 (Sep 6-Sep 10) Unix, CGI, Perl (pp. 35-61).
- Week 3 (Sep 13-Sep 17) More CGI/Perl (pp. 61-91 and 95-102).
- Week 4 (Sep 20-Sep 24) HTTP, Java (pp. 103-144).
- Week 5 (Sep 27-Oct 1) RDBMS and MySQL (pp. 145-176)
- Week 6 (Oct 4-Oct 8) Basic PHP (pp. 209-226, 177-208)
- Week 7 (Oct 11-Oct 15) Exam practice (pp. 227-258, 177-208, 475-482)
- Week 8 (Oct 18-Oct 22) MIDTERM EXAM.
- Week 9 (Oct 25-Oct 29) DHTML and Javascript (pp. 271-297).
- Week 10 (Nov 1-Nov 5) Shopping carts (pp. 299-322)
- Week 11 (Nov 8-Nov 12) Tomcat. Server-side Java (pp. 335-384).
- Week 12 (Nov 15-Nov 19) Java servlets and JSP (pp. 385-403)
- Week 13 (Nov 22-Nov 26) THANKSGIVING WEEK.
- Week 14 (Nov 29-Dec 3) Web Chat, Java RMI (pp. 403-427, 483-498)
- Week 15 (Dec 6-Dec 10) XML-RPC, JDBC, XSLT (pp. 429-474)
- Week 16 (Dec 13-Dec 17) FINAL EXAM DAYS

Course Website

We'll use OnCourse but a separate course website will be maintained at

<http://www.cs.indiana.edu/classes/a348-dger>

Please check it daily for announcements, schedule of office hours etc. It will be linked in OnCourse for easier access.

Exams

There will be two written exams and two practical exams. Each practical exam is associated with and complements the corresponding written exam. For the midterm you will take the exam on Thursday and will have to describe in written form the structure of your program (pseudocode and such). Then by Monday you will have to provide four different implementations of the program (PHP and CGI with state maintained on both the client and the server side). Final exam will be similar, with the implementations likely preceding the written exam.

Instructors

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