CS 546 Web Programming Syllabus

   The syllabus below describes a recent offering of the course, but it may not be completely up to date. For current details about this course, please contact the course coordinator. Course coordinators are listed on the course listing for undergraduate courses and graduate courses.

Text Books

Required
Steven A. Gabarro, *Web Application Design and Implementation*, Wiley, 2006

Week-by-Week Schedule

Week	Topics Covered	Reading	Assignments
1	Web Fundamentals, Programming Languages for the Web	Chapters 1 and 2	
2	HTML Basics, the working environment	Chapters 3 and 4	
3	The PHP language	Chapter 5 and 6	File browser v1.0, indexer v1.0
4	More on the PHP language	Chapter 7	
5	Using HTML with PHP, forms, sessions, cookies, etc.	Chapter 9	File Browser v2.0, indexer v2.0
6	Using CSS and templates. Intro to databases	Chapter 10 and 11	
7	Database manipulation in PHP	Chapter 12 and 13	Indexer v3.0
8	Basics of JavaScript	Chapter 14	Indexer v4.0+Searcher; final project proposal due
9	Programming the browser and forms with JavaScript	Chapter 15	
10	Manipulating windows and frames with JavaScript	Chapter 16	
11	Using dates, timers, string manipulation and regular expressions	Chapter 17	
12	DHTML	Chapter 18	
13	AJAX basics		Final project CEO presentation
14	Security pitfalls and basic solutions (SQL injections, HTML/JS injections, X-site scripting, DoS, DDoS, File upload vulnerabilities, Password encryption, Password recovery flaws)	Chapters 8 and 19	