Handout 1	**STORAGE SYSTEM ARCHITECTURES**	**CS&E 102**
W.A. Burkhard	`cs102w@ucsd.edu` `burkhard@cs.ucsd.edu`	**Winter 1998**

Lecture Times:	2:20 - 3:40pm Tuesday and Thursday	109 Center Hall
Discussion:	9:05 - 9:55am Wednesday	104 Solis Hall
Teaching Assistant:	Kamlesh Talreja `cs102w1@ucsd.edu`	
Office and Section Hours:	In `public/HOURS` – Teaching assistant's and mine.	

Handouts:	Various papers and course materials.		
Notes:	Burkhard, W.A.	*Storage Systems (notes)*	Soft Reserves, campus
References:	Weiss, M.A.	*Data Structures and Algorithm Analysis in C*	

Course Structure: This is both a lecture and a laboratory course. There will be section meetings held at regularly scheduled times. Additional material will be presented at the section meetings as well as discussion of lecture material and assignments. The formal prerequisite for CSE102 is CSE100 or the equivalent. Please discuss your situation with me if you do not meet these requirements.

Course Grade and Information: The course grade will be based upon programming projects and written exercises (40%), a midterm examination (25%), and the final examination (35%). Students must take the final examination at the scheduled time to complete the course. Students who elect "P/NP" grading will be given a letter grade for their own information, but it will not be reported to the Registrar. Marks and other course information will be placed in the course bulletin board located in `cse102w/public` on `ieng9`. Marks will be posted by student number only. If you do not wish to have your marks so posted, please let us know in writing immediately. Incomplete grades will be given only for extraordinary medical or personal emergencies that cause you to miss the final examination and only if your work, up to that point, is satisfactory.

Computer Use: You may use any Academic Computer Services facility to complete the storage systems exercises using the C++ programming language. Questions regarding course accounts should be directed to the teaching assistant. Homework assignments will be graded on the Academic Computer Services ieng9 system. You will be held responsible for the consequences of your activities on these computing facilities.

Much of the course materials will be available online; you will be able to obtain a copy from the course home page. This is available through the departmental WWW home page; you will need a net browser to access this material. You can use the ghostview utility program to view these postscript files. Or you can print them using a postscript compatible laser printer. You may obtain a suitable printing account from ACS for this.

Homework Submission Procedure: Programming projects are due at midnight on the due date. These are to be turned in electronically complete with documentation. The procedure will be completely described on the first project handout. You are encouraged to work in a groups of two for the programming projects; however, you may choose to work alone if you wish. Each group of one or two students must submit its own work; one copy suffices for groups of two. Please choose your partner carefully; your schedules should be compatible to allow working together. A very common partnership failure mode is the "disappearing partner." *Work on the assignments is to be done by individual groups.* The partnership grade is earned by both partners.

Written exercises are to be submitted on paper. These will be graded and returned.

To be sure of submitting your projects on time in spite of computer breakdowns and slowdowns, family emergencies etc., you will have to plan around these inevitable occurrences.

CS&E 102	**Lecture Schedule**	**Examination Schedule**
1	Magnetic disk drives; B+trees.	
2	Linear hashing, Interpolation-based index maintenance	
3	Interpolation-based index maintenance: non-uniformity	
4	Spatial Indexing: R trees	
5	R trees and R+trees Section: midterm review	
6	Disk arrays: transaction processing	Midterm examination February 10
7	Disk arrays	
8	Reliability	
9	Disk arrays: video servers	
10	Disk arrays: video servers	
	FINAL EXAMINATION room to be announced. 3:00-6:00pm, Friday March 20	