CSCB28F - File Structures **Fall 1997**

Instructor: Daniel Panario, panario@scar.utoronto.ca

Tutor: Goldine Cupit, cupit@scar.utoronto.ca

Lectures: Mon, Wed 11:00–12:00 in S128

Tutorials: there are 3 tutorial sections

Thu 9:00–10:00	(H309)
Fri 12:00–13:00	(H402)
Fri 13:00–14:00	(H4031)

Office hours:

Lecturer: Mon 10:00–11:00 in S-626A.
Tutor: Wed 9:00–10:00, 1:00–2:00; Thu 11:00–12:00; Fri 11:00–12:00.

Textbook:

M.J. Zoellick and B. Folk "*File Structures*", second edition, Addison Wesley, 1992.

C programming language book:

K.N. King, "*C programming: a modern approach*", Addison Wesley, 1996.

Other texts for consult:

B.W. Kernighan and D.M. Ritchie, "*The C programming language*", 2nd ed., Prentice-Hall, 1988.

P.D. Smith and G.M. Barnes, "*Files and databases: an introduction*", Addison-Wesley, 1987.

Course goals (from the academic calendar): An introduction to techniques for storing, accessing and managing long-term data in computer systems. Hardware and software aspects of data processing: processors, storage devices, communications, file I/O control. Techniques for organizing and managing files: serial files, direct files, indexed files, multikey files, integrated files, file systems. Introduction to data base management systems with emphasis on relational data base systems.

Course Outline (tentative):

Topic	**Approx. number of weeks**
Introduction, C Programing Language	2
File structures concepts	2
Cosequential processing	1
Indexes	2
B-Trees	2
Hashing	2
Introduction to database	2

Marking Scheme:

3 Assignments at 15% each	45%
1 Term Test at 20%	20%
Final Exam at 35%	35%
	100%

There may be electronic submission of assignments. The first assignment is individual. The other two assignments can be done in groups of at most 2 persons. To pass the course, you must receive at least 35/100 on either the final exam or the term test.

Schedule:

First lecture - Sep 8

Assignment	**Hand-out Date**	**Due Date**
1	Sep 23	Oct 14
2	Oct 14	Nov 4
3	Nov 4	Nov 25

Midterm tests - October 29 (11:10 in S-128)

Last date to drop - November 3

Last lecture - December 3

Final exam - December 8-17, 1997.

In the future, we will comment on penalties for lateness. It is expected that except in special circumstances, with a written excuse, late assignments will receive a mark of zero. All late assignments must be handed in to the lecturer, not the tutor. Each assignment must be clearly labelled with your name and student number.

Graded assignments and test will be handed back by the tutor.

Web page: there will be a homepage for the course. We expect to have it working in some days.

Plagiarism:

The work you submit must be your own. Plagiarism is a form of academic fraud and is treated very seriously. You may discuss general approaches to assignments with others, but you should not leave such a discussion with any written material provided by or copied from another person. In particular, the actual writeup of your assignment must be done in isolation from others. It is *not* difficult for the graders to detect undue collaboration and every year several students discover this the hard way. Note that it is a serious offence to help someone commit plagiarism. **Do not lend your assignment or let others copy it.**