**CSC228F - File Structures** **Fall 1997**

**Instructor**: Daniel Panario, daniel@cdf.toronto.edu

**Lectures**: Tuesdays 7-9 in SF1105

**Tutorials**: Tuesdays 6. Your tutorial section is determined by the initial of your surname, as shown. You must attend the assigned tutorial.

| Tutor Name | Room | Students |
|---|---|---|
| Chris Gao | SF 1105 | A–G |
| Neil Gower | GB 415 | H–LEE |
| Nick Koudas | GB 420 | LEF–R |
| Qinxin Yu | GB 404 | S–Z |

**Office hours**: in SF2304A, 978-1933, on the following days

| | |
|---|---|
| Lecturer: | every Tuesday from 5:10 to 6:00 except when an assigment is due;<br>also after every lecture in SF1105. |
| Tutors: | Mondays previous and after assignment due dates and midterm test. |

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

**Schedule**:

**First lecture** - Sep 9 (no tutorial this Tuesday)

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

**Midterm tests** - October 28 (6:10 in SF1105)

**Last date to drop** - November 3

**Last lecture** - December 2

**Final exam** - December 8-17, 1997.

Assignments are due at 6:00 PM (beginning of tutorial). 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, student number and name of your tutor.

Graded assignments and test will be handed back in tutorial.

**Web page**:

`http://www.cs.toronto.edu/~daniel/teaching/228/index.html`

**Newsgroup**: ut.cdf.csc228h

**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.**