# Course Information CSC B63H3 Y: Design and Analysis of Data Structures Summer 2008

### Instructor

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#### Web Site http://www.cs.utoronto.ca/~krueger/cscB63h/

The web site is the primary source of information about the course, including assignments, notes, marks and announcements. You are responsible for all announcements posted to the course web site, so please check it regularly.

Lectures Thursdays, 1:10pm–3:00pm in room HW 214

Tutorials Thursdays, 3:10pm–4:00pm in room MW 120

Attendance in tutorials is as mandatory as attendance in lectures. Formal attendance is not taken in either venue; however, there will be new material that is presented only in tutorials (and not in lectures) for which you are responsible and on which you may be tested in homework or exams.

# Recommended Textbook

Cormen, Leiserson, Rivest & Stein, *Introduction to Algorithms* (2nd edition). MIT Press and McGraw-Hill (2001), ISBN: 0-262-03293-7.

Online access to this text is available free to UofT students through the library website at http://main.library.utoronto.ca/eir/resources.cfm

# **Course Topics**

Design, analysis, implementation and comparison of efficient data structures for common abstract data types. Priority queues: heaps and mergeable heaps. Dictionaries: balanced binary search trees, B-trees, hashing. Amortization: data structures for managing dynamic tables and disjoint sets. Data structures for representing graphs. Graph searches.

Prerequisites: CSCB07H & CSCB36H & STAB52H & [CGPA 2.5 or in CSC POSt]

# Marking Scheme and Schedule

Item	Weight	Dates
4 assignments	40% (10% each)	May 29, June 12, July 10, July 24
Midterm test	15%	June 19
Final exam	45%	Aug 9–22

NOTE: To pass the course, students must obtain a minimum mark of 40% on the final exam.

#### **Course Policies**

*Homework:* Each homework assignment will consist of a written "pencil-and-paper" component and a programming component. Assignments are due at the *beginning of class* on the date specified. The written portion should be submitted directly to the instructor; to prevent disruption, assignments will not be accepted after the first 5 minutes of class. The programming portion must be submitted electronically: paper printouts will not be accepted.

*Consultation:* For help with your homework you may consult *only* the instructor, TAs, your textbook and your class notes. *You may not consult any other source!* In particular, you may not use the Internet to research the problems.

Lateness, Absence and Extensions: Late assignments will not be accepted. In the case of a missed test, a mark of zero will be recorded: no make-up test will be provided. Only in exceptional circumstances will requests for extensions for assignment deadlines or excuses for missed tests be entertained. Any request for special consideration must be presented to the course instructor (not a TA) with all supporting documentation as soon as possible. For medical excuses, only the official UofT medical certificate will be accepted.

*Remarking:* Any dispute over the grading of an assignment or test should be stated in writing (using the form on the website) and submitted along with the original copy of your work.

#### **Plagiarism and Academic Honesty**

The work you submit must be your own and cannot contain anyone else's work or ideas, without proper attribution. Plagiarism is a form of academic fraud and is treated very seriously.

Note that it is a serious offense to help someone commit plagiarism. Do not let others look at your solutions, even in draft form. If you are unsure whether an activity may constitute plagiarism or undue collaboration, consult the instructor immediately.

If you are having trouble with the course, come speak to us, that's why we're here!

#### **Important Dates**

Deadline to add Y courses	May 19, 2008
Reading week (no classes)	June 30–July 4, 2008
Deadline to drop Y section courses	July 20, 2008
Classes end in Y section courses	August 1, 2008
Final Examinations	August 9–22, 2008