

# Database System Technology

**Title:** Introduction to Databases, Computer Science 343

**Term:** Summer, 2003

**Section:** L5201

**Professors:** Laurent Mignet

**Email:** mignet@cs.toronto.edu

**Office Hours:** Tuesday 7-8pm at BA 5222; Wednesday 7-8pm at BA 5222.

**Course HomePage:** [http://www.cs.toronto.edu/db/courses/343/Summer2003\\_L5201/](http://www.cs.toronto.edu/db/courses/343/Summer2003_L5201/)

**Tutorials:** Thursday 6-7pm at BA 2135, BA 2175 and BA 2185.

**Class meets:** Thursday 7-9pm at BA 1190.

**Course Description:** Concepts, approaches, and techniques in data base management systems (DBMS): relational data bases, querying and updating a data base, query language SQL, data base constraints and data base design, elements of data base technology.

**Prerequisites:** CS263H1/265H1(228H1,238H1(/378H1; CGPA 3.0 Recommended preparation: proficiency in C.

## **Text:**

- *Database Systems: The Complete Book* Hector Garcia-Molina, Jeffrey D. Ullman, Jennifer Widom from McGraw Hill

## **Other recommended text books:**

- *Database Management Systems* Ragu Ramakrishnan and Johannes Gehrke, McGraw Hill, 2000 (2nd Edition)
- *Database System Concepts* Avi Silberschatz, Henry Korth, S. Sudarshan McGraw Hill, 2001, (4th Edition)
- *SQL in a Nutshell* Kevin Kline with Daniel Kline, O'REILLY, 2001, (1st Edition)

Make sure that you visit this site frequently. All the important announcements and handouts will be contained there.<sup>1</sup>

## **Assignments:**

There will be 3 assignments. The due dates for all projects will be Monday, 9:00 pm. By this time your projects report must be in the CSC343 drop box (located next to the LP/SF bridge, on the SF side) and your code upload to the proper directory (if necessary). Penalties for late homework: 20% for each day. It is *your* responsibility to find the professor to hand in your project if it is late.

**exams** The *Mid-term exam* is not cumulative. The final exam will emphasize all materials shown during the lecture.

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<sup>1</sup>Sometimes your browser may contain an old cached copy of the page. To make sure that you see the most recent version of the page, click on the reload button of the browser while you keep the "Shift" button of your keyboard pressed down.

**Regrading Policy:** For every regrading issues, ask for appointment to me. I am the only person able to regrade your assignment/mid term. DO NOT CONTACT the TA, because you will not know which TA marked your copy.

If you are unable to resolve an issue with a TA, you can make a **written** regrading request to me and a note from the TA. For exams, only written regrading requests will be accepted. Please write your request and justification and give this together with your exam to the professor. For additional mistakes, note the error on the front of the exam and hand it in to the professor.

**Grading scheme and Schedule:**

Assignment 1	15%	Monday, June 9th, 9:00 pm
Assignment 2	15%	Monday, July 7th, 9:00 pm
Assignment 3	15%	Monday, July 28th, 9:00 pm
Mid-term exam	15%	Thursday, June 26th 7:00pm
Final exam	40%	TBA

Requirement: Mid-term + Assignments: 40%  
Final Exam: 40%

**Mid-term Exam:** The exam is held in the lecture time.

<u>Topics</u>	<u>Reading</u>
Entities/relationship Data Model	Ch. 2
Relational Data Model	Ch. 3.1-3.3
Relational Algebra - SQL	Ch. 5-6
Functional Dependencies	Ch. 3.4-3.7
Overview of Query-Processing and Datalog	Ch. 10, 15-16

**Schedule:** a tentative lecture and tutorial schedule might be found on the course web page.