

CMPT 354

Database Systems I

Fall 2015

Course Information

Instructor:

Jim Delgrande, T9015; email: jim

Office hours: Tuesday, Thursday 2:00-3:00

TA:

Bhagyasri Velpula, email: bvelpula

Office hours: TBA (in CSIL)

Lecture Hours: MWF 11:30 – 12:20

Lecture Room: AQ 3005

Course Info

Goal: Introduction to Database Systems

- Design of databases.
 - Relational model
 - E/R model
 - Semistructured model (XML)
- Database programming.
 - Relational algebra
 - SQL
 - XPath, XQuery
- Not: DBMS implementation (that's CMPT 454)

Course Grading

Grading

- Marks:
 - 40% - 4 assignments
 - 20% - midterm test
 - 40% - final exam.
- The final is Friday, Dec 11 at 8:30 a.m.
 - You *must* be able to attend the final
 - Note that the final will be 2 hours

Course Grading

Letter Grades

Letter grades will be assigned as follows:


A+: ≥ 90 ; A: 84-89; A-: 80-83;
B+: 77-79; B: 74-76; B-: 70-73;
C+: 67-69; C: 64-66; C-: 58-63;
D : 50-57; F: < 50 .

Notes

- In calculating a final mark, grades will *not* be scaled down.
- They might be scaled up, but this is rare.

Course Policies

Coursework and Academic Honesty

- All course work must be done individually by each student.
- It's ok to discuss general principles and directions for an assignment, but the solutions you submit must be yours  i.e., you must have created them entirely on your own.
- Failing to do so will be considered academic dishonesty and appropriate penalties will be applied.
- If you're in doubt, please ask.

Course Policies

Marking Issues

- For questions concerning the assignments (either for the interpretation of an assignment or for a grade), please see the TA first, and then talk to me if you still have concerns.
- If you have any concerns regarding grading of an assignment or a test, please notify myself or the TA within one week of the material being handed back.

Even More Course Policies

Office Hours and Email

- Please use email only for brief questions or for points of clarification.
- For longer questions or problems please see the TA or myself during office hours.

Due Dates

Unless announced otherwise, all assignments are due at 23:59 on the given date; and late assignments will not be graded.

Text

Textbook:

- We'll be using the text by Jeffrey Ullman and Jennifer Widom, *A First Course in Database Systems, Third Edition, 2008*.
- Slides for lectures will be made available before class on the course home page.
- There are *lots* of other texts, and many are very good references.

Course Overview

Topics

- Introduction
- The Relational Model
- Database Design: The Entity/Relationship Model
- SQL
- More SQL: Constraints, Triggers, etc.
- Relational Database Design: Normalization
- XML

Possibly also:

- Intro to Data Analysis and Data Mining
- The Datalog Query Language