

CS430/630

Database Management

Spring 2008

Instructor: Prof. Patrick E. O'Neil, Dept. of CS, UMass/Boston

Office: Science 3/167 - UNIX Mail ID: poneil (from outside, poneil@cs.umb.edu)

Phone: 617-287-6468 Dept. Secretary: 617-287-6440, 6441, 6442

Home: 617-661-1054 (if busy, 617-354-6460) Wkdys & Wknds 9:00 AM to 10:00 PM

***** PHONE MY HOME NUMBER ANYTIME FOR ADVICE, ANSWERS, HELP *****

Class Hours: Mon and Wed 4:00 - 5:15 PM, Room M-1-617

Office Hours: Mon and Wed 3:40-3:50. 5:50 to 6:50 PM, and after class.

Grader: TO BE ANNOUNCED

CS430/CS630 is the Under-/Graduate course (Undergraduates **can** take CS630). Lectures are in common; CS630 will have an additional homework/project assignment and Exam coverage.

Prerequisites: permission of instructor (you should know C and UNIX). Undergraduates must have taken CS310 or be taking it. Dropping or Failing CS310 implies the same result in CS630.

Text: Patrick O'Neil & Elizabeth O'Neil, "Database: Principles, Programming and Performance," Morgan Kaufmann, 2nd Edition, 2001 (Older Edition without Elizabeth O'Neil is too old). Course Web Page is at: www.cs.umb.edu/cs630, including (old) PDF of text Chapter 2 (if you don't yet have a copy) and Corrections you should enter in your text when you have one. GET THIS!

Topics covered: The object of this course is to introduce the concepts needed by a Database Administrator (DBA), who maintains and runs a Database Management System for some commercial enterprise. CS430/630 will cover the first six chapters of the text: Intro., Relational Algebra, Basic SQL, Object-Relational SQL (very light on this topic), Programming in SQL, and Database Design. The rest of the text will be covered in CS634.

Grading: Breakdown of grades (total of 150 points)

-> Homeworks (programs and handwritten), drop lowest one: 15 points

You will receive several **program projects** in homework, using C and Oracle (you must use school UNIX). Other written assignments should also be entered online. **You must turn in all but one (dropped) assignment; if you see yourself falling behind, see me!** I will try as hard as I can to make Exams reflect the lessons learned from the homework assignments.

-> Three Exams, drop lowest one: 135 points

There will be three exams counting equally, for a total of 135 points. The first two will be in-class and the third will be given during final exam period; **the lowest grade will be dropped from the three equal exams**, so you can skip the final if you're happy with your average. **If you miss an exam, that will be an exam grade dropped. I DO NOT GIVE MAKE-UP EXAMS.**

Incompletes: If you miss crucial graded events you will receive an F unless you are in good standing (at least a "C") with previous assignments and Exams, in which case I will examine you orally on the Final Exam material. It is your responsibility to contact me for this. The only way to receive an incomplete is a true emergency (documented) and a "C" standing up to then.

NOTE WITHDRAWAL DATE: The University requires that you withdraw from the course by Thursday, April 10, 2008, or receive a grade for the course.

TO BEGIN: Go apply for the course cs430 or cs630 in the UNIX terminal room even if you already have a UNIX ID; this will give you an ID on a machine that runs ORACLE.