

Spring 2011

ICS321 Data Storage & Retrieval

Mon & Wed 12-1:15 PM

Asst. Prof. Lipyeow Lim

Information & Computer Science Department

University of Hawaii at Manoa

Staff

- Instructor: Lipyeow Lim
 - Firstname is fine!
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 - Office Hours Thu 12-2 PM or by appointment
- Teaching Assistant:
 - Andrea Connell connell4@hawaii.edu

Please Introduce Yourself

- Name
- Year of study
- Major
- What do you hope to learn in this class ?
- One “distinguishing” fact about yourself to help me learn your name
 - Eg. Hobby, place of origin, job, travels, what you did last summer ...

Poll

- How many of you have:
 - Taken Discrete Math I (ICS141) ?
 - Programmed in Java ?
 - Programmed in C ?
 - Used unix shell commands ?
 - Used a database before ?
 - Used linux ?
 - Used cloud computing platforms like Amazon EC2 ?
 - Used virtualization technology like Vmware, Xen, KVM, virtualBox ?

Communications

- Webpage:
 - www2.hawaii.edu/~lipyeow/ics321/2011spr/
- Laulima
 - laulima.hawaii.edu
 - Grades of quizzes, homework, exams will be posted there
 - Discussions
- Emails

Textbook

- Required:
 - **Database Systems: The Complete Book (2nd Edition).**
 - Hector Garcia-Molina, Jeff Ullman, and Jennifer Widom.
 - ISBN-13: 978-0-13-187325-4.
- Alternate:
 - **A First Course in Database Systems (3rd Edition).**
 - Jeff Ullman, and Jennifer Widom
- Previous:
 - **Database Management Systems, Third Edition.**
 - Raghu Ramakrishnan and Johannes Gehrke.

Format

- Class time: Mon & Wed 12-1:15 PM
 - Lecture (Mon & Wed)
 - Group discussion & problem solving (Mon)
 - Hands-on Session (Wed) – *Please bring your computer.*
- Quizzes every Monday (15%) – *probably online*
- 2-3 Homework assignments (15%)
- One course project (40%) – *group work*
 - Includes a recorded 8 minute presentation & a live Q&A
 - Peer evaluation
- One mid-term exam (15%)
 - One letter size sheet of notes allowed
- One final Exam (15%)
 - One letter size sheet of notes allowed

Pre-requisites

- Understand set theory (ICS 141 Discrete Math)
- Understand propositional logic (ICS 141 Discrete Math & ICS 111 Intro to CS)
- Be able to write a program in Java (ICS 111+211)
 - Use a text editor
 - Command shell
 - Compile and run programs
- Have access to a computer (preferably a laptop)
- Have internet access

To do well in this class ...

- Keep up with the readings
- Attend class and participate
- Review the material for the quizzes, mid-term, and final
- Do the homework assignments
- Start on the project early
- Take charge of the learning process
 - Try out the commands on the DBMS
 - Make use of the exercises in the textbook

Focus on understanding the material to the point that you can apply it in different contexts!

Why take this course ?

- Database-related jobs eg. DBA
- You'll likely deal with data management in your (future) jobs
- Database technology is behind almost all internet technology
- ...

Homework

- Homework to be completed BEFORE coming to class on Wed
 - Install VirtualBox on your laptop
 - Download Ubuntu 10.04 Desktop Edition image to your laptop
 - Create a Virtual Machine and Install Ubuntu on it
 - Download DB2 Express-C 9.7 to your laptop
 - Install DB2 on the Ubuntu Virtual Machine
- See screencast on the course website for more info.