

# COMP 5120/6120 Database Systems I

**Introduction**  
Wei-Shinn Ku

8/18/2011

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## Welcome to COMP 5120/6120

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- Course website:  
<http://www.eng.auburn.edu/~weishinn/Comp6120>
- Announcements, syllabus, policies, schedule, etc.
- Please read the class syllabus, policies, and lecture schedule; ask now if you have questions.

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## The Instructor

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- Wei-Shinn (Jeff) Ku
  - Email: [weishinn@auburn.edu](mailto:weishinn@auburn.edu)
- Research Interests
  - Databases
  - Spatial Data Management
  - Location-based Services
  - Geographic Information Systems

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## Teaching Assistant

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- Guangyu Zou  
([gzz0001@tigermail.auburn.edu](mailto:gzz0001@tigermail.auburn.edu))
- CSSE PhD student
- Shelby Center 3133
- Office hours: Tue, Thu 2 pm – 3pm

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## Course Goals

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- User Perspective
  - How to use a database system?
  - Conceptual data modeling, the relational and other data models, database schema design, relational algebra, and the SQL query language.
- System Perspective
  - How to design and implement a database system?
  - Data representation, indexing, query optimization and processing, transaction processing, concurrency control, and crash recovery, etc.

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## Textbooks

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- Ramakrishnan and Johannes Gehrke, *Database Management Systems*, Third Edition, McGraw Hill (main textbook)
- Connolly & Begg, *Database Systems*, Fifth Edition, Addison Wesley 2009

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## Course Format

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- Two 75 min lectures/week
- Three assignments
- One term project
- Two exams

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## Lectures

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- Lecture slides will be posted shortly before or after the lecture
- Lectures are important for guiding your reading of textbook (and will be covered in exams and assignments)
  - So please attend lectures regularly

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## Assignments

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- Mostly paper-based.
- Due by the end of the due date class.
- *No late homework will be accepted.*

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## Term Project

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- 10 ~ 15 SQL queries
- MySQL – open source DBMS

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## Exams

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- Exam 1 and Exam 2 (closed book/closed notes)
- *Check dates and make sure no conflict!*
  - Generally no makeup exams unless exceptional cases.

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## Tentative Grading Breakdown

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- Assignments: 10%
- Project: 30%
- Exam 1: 30%
- Exam 2: 30%

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## Office Hours

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- The instructor
  - Mon 4pm - 5pm, others by appointment
- The TA
  - Tue Thu 2pm – 3pm
- If you have a question
  1. talk to people in the class
  2. email the TA
  3. go to office hours to talk to the TA or the instructor

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## How to Get the Most out of this class?

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- Study and discuss with your peers
  - Discuss readings to enhance understanding.
  - Discuss assignments but write your own solution!
- Use lectures to guide your study
  - Use them as a roadmap for what's important.
  - Lectures are starting points– they do not cover everything you should read.

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