

Welcome to COMP 5120/6120

- Canvas course website.
- Announcements, syllabus, policies, schedule, etc.
- Please read the class syllabus, policies, and lecture schedule; ask now if you have questions.

The Instructor

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

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Teaching Assistant

- Ms. Princess C. Samuel
 - Email: pcs0044@auburn.edu
- CSSE PhD student
- Office hours: Monday and Wednesday, 12 pm – 1 pm, on Zoom (Zoom ID: 6908868066)

Course Goals

- User Perspective
 - How to use a database system?
 - Conceptual data modeling, the relational data model, 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

- Ramakrishnan and Johannes Gehrke,
 Database Management Systems, Third
 Edition, McGraw Hill (main textbook)
- Connolly & Begg, Database Systems: A Practical Approach to Design, Implementation, and Management, Sixth Edition, Pearson, 2014

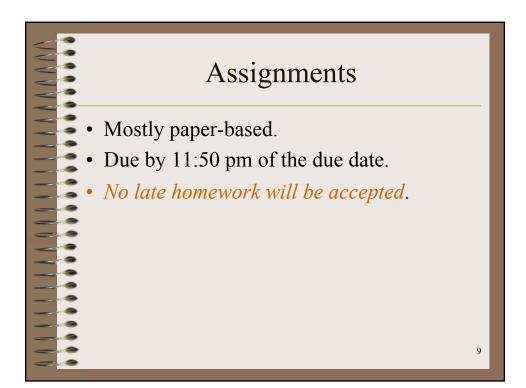
Course Format

- Five 90 mins lectures/week
- Four assignments
- Two exams

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Lectures

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



Exams • Midterm and Final (closed book, closed notes) • Check dates and make sure no conflict! - Generally no makeup exams unless exceptional cases.

Tentative Grading Breakdown

- Assignments: 20%
- Midterm: 35%, July 21, 2025
- Final: 45%, August 6, 2025

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Office Hours

- The instructor
 - Friday 9 am 10 am, others by appointment
- The TA
 - − Monday and Wednesday 12 pm − 1 pm
- 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

How to Get the Most out of this class?

- 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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Next Lecture ...

 Read Chapter 1 – Overview of Database Systems