Database Systems

Instructor: Dr. Mike Gately

Course Description: After taking this course students should understand basic database theory: Models/Representations/Views, Relational calculus/SQL, Normalization, and Indexing/transactions/concurrency/recovery; Know fundamentals of one DBMS; Be prepared to learn any DBMS; Be ready to be a programmer or sophisticated user.

Syllabus: At the end of the semester, each student will turn a copy of his/her notes. This will be an indication of attendance and participation. The notes will be reviewed and points given totaling 5% of the student's final grade.
Each student will design a relational database. The progress will progress in stages:

1) Requirements Analysis,
2) Conceptual Design (Schemas and Functions),
3) Logical Design,
4) Physical Design.

A set of queries will be developed that represent normal usage of the database. Implementing the database will be a plus.