The first midterm examination for CSCE 520 will be given on Tuesday, February 26. It will be closed book and notes.

Topics to be covered are listed below:

Chapter 1: The Worlds of Database Systems

Types of questions to expect: Distinguishing DB vs. DBMS. Explaining basic DBMS components.

Skip for now: Transactions/ACID (Section 1.2.4).

Chapter 2: Relational Database Modeling

Types of questions to expect: Defining basic relational terms. Specifying schemas. Creating tables. Writing relational algebra queries. Specifying keys; Identifying differences between SQL systems and relational systems. Explaining referential and entity integrity.

Chapter 4: High-Level Database Models

Types of questions to expect: Constructing an E/R diagram. Converting an E/R diagram to a relational schema.

Skip for now: ODL. UML (Sections 4.7-4.10).

Chapter 5: Relational Database Programming

Types of questions to expect: Writing relational algebra queries using extended operators.

Skip for now: Datalog (Sections 5.3, 5.4)

Chapter 6: The Database Language SQL

Types of questions to expect: Writing SQL queries. Handling NULLs. Comparing SQL and relational algebra.

Skip for now: Transactions (Section 6.6).