

MIS 6326 Database Management Systems / AIM 6337 Data Strategy and Management
Syllabus (Summer 2005)

Course: MIS 6326 Sec 521 (Call 11017) / AIM 6337 Sec 521 (Call 11401)

Instructor: Young U. Ryu (972-883-4065, ryoung@utdallas.edu)

Class Hours : M 6:00–10:00PM @ SOM 2.902

Office Hours : M 5:00–5:45PM or by appointment @ SOM 3.426

Required Textbook: Peter Rob & Carlos Coronel. *Database Systems: Design, Implementation, and Management* (6th Edition), Course Technology, 2004.

Course Objective: The main objective of the course is to understand relational database theories, industry standard SQL, and database design. A conceptual/semantic data modeling with the entity-relationship diagramming technique is also covered.

Prerequisite: Competence in personal computing (e.g., operating system/environment, word processing software, electronic spreadsheet, personal database software, network applications such as e-mail and World Wide Web).*

Grading:

- | | |
|--------------------------------|-----------------------|
| • Exam 1 40% | • Exam 2 40% |
| • Final Group Project 15% | • Assignments..... 5% |

Letter grades will be assigned based on the following formulae:

- A if $\text{total_score} \geq (\text{median} + 0.5 \times \text{standard_deviation})$
- B if $(\text{median} - 1.0 \times \text{standard_deviation}) \leq \text{total_score} < (\text{median} + 0.5 \times \text{standard_deviation})$
- C if $(\text{median} - 1.8 \times \text{standard_deviation}) \leq \text{total_score} < (\text{median} - 1.0 \times \text{standard_deviation})$
- F if $\text{total_score} < (\text{median} - 1.8 \times \text{standard_deviation})$

Database Systems Software: We will use Microsoft SQL Server as the main SQL platform. Microsoft Access will be the front-end to the server. We will also use Microsoft Visio as the data modeling tool.

Assignments: There will be one SQL assignment and one data modeling assignment. Late assignment returns are subject to penalties:

1 day late	15% penalty	2–3 days late	30% penalty
4–6 days late	60% penalty	after the 6th day	not accepted

- *Assignments must be done by individuals, not a group; copying other students' assignments will be subject to the penalty prescribed by the University rules and the incident will be reported to the Dean of Graduate Studies.*
- No hand-written reports will be accepted; they must be word-processed or type-written.
- Submission of assignment reports via e-mail, fax, or other electronic media is not acceptable.

Group Project: Students are expected to voluntarily organize groups of up to 5 people. Each group must select a problem, and use Microsoft Access (optionally with the Microsoft SQL Server) to develop a prototype database.

- No hand-written project report will be accepted; it must be word-processed or type-written.
- Submission of the project report via e-mail, fax, or other electronic media is not acceptable.

* "Competence in personal computing may be demonstrated in one of three ways: completing BA3351 with a grade of B or better, completing an equivalent course at another university with a grade of B or better, or passing an exemption exam." (UTD Graduate Catalog 2002–2004)

Exams: Two exams are closed-book in-class tests. Test questions may consist of multiple choice questions, short essay questions, and problem-solving questions. There will be no make-up exams, except for medical emergency (written statement justifying the situation from a physician required). The written statement should include the physician's address and phone number for the verification purpose.

Class Notes: Class notes will be available through the Internet World Wide Web. Details will be announced in the class.

UTD EMail Policy: As of August 1, 2004, all email correspondence with students will be sent *only* to the student's UTD email address. UTD provides each student with an email account that is to be used in all communication with university personnel. This allows UTD to maintain a high degree of confidence in the identity of all individuals corresponding and the security of the transmitted information. The Department of Information Resources at UTD provides a method for students to forward email from other accounts to their UTD address and have their UTD email sent on to other accounts.[†] Students may go to the UTD Net ID site (<http://netid.utdallas.edu>) to establish or maintain their official UTD computer account.

Schedule :

	Date	Text	Descriptions
1	5/16	Syllabus Ch. 1 Ch. 2 Ch. 3	<ul style="list-style-type: none"> • Course Introduction • Database Systems • Data Models • The Relational Database Model
2	5/23	Ch. 4	• Entity Relationship Modeling (ERD)
3	5/30	No Class	No Class—Memorial Day
4	6/6	Ch. 4	• Entity Relationship Modeling (ERD)
5	6/13	Ch. 4 Ch. 5	<ul style="list-style-type: none"> • Entity Relationship Modeling (ERD) • Normalization of Database Tables
6	6/20	Ch. 6	<ul style="list-style-type: none"> • Structured Query Language (SQL) • Assignment 1 Due
7	6/27	Exam 1	• Chs. 1–5
8	7/4	No Class	No Class—Independence Day
9	7/11	Ch. 9 Ch. 12	<ul style="list-style-type: none"> • Transaction Mgmt and Concur. Control • The Data Warehouse
10	7/18	Chs. 6 & 7	• Structured Query Language (SQL)
11	7/25	Chs. 6 & 7	<ul style="list-style-type: none"> • Structured Query Language (SQL) • Assignment 2 Due (7/28)
12	8/1	Exam 2	<ul style="list-style-type: none"> • Chs. 6, 7, 9, 12 • Project Due

(The schedule may change.)

[†] In order to have UTD mails sent to other accounts, refer to the following document provided by Information Resources: <http://www.utdallas.edu/ir/tcs/training/documents/EmailForwarding.doc>.