

CSC K233 Course Outline

Fall 2008

Course: CSC K233 – Database Development I

Program: Computer Science

Hours: Lecture M 5:20 pm–8:05 pm Lab M 8:10 pm-9:50 pm (Room E114, Thames)

Instructor: Allan Anderson

Office: Thames Valley Campus, Room 204

Office Hours: Monday (10:45 am - 11:45 pm)

Monday (4:20 pm - 5:20 pm)

Wednesday (5:00 pm - 6:00 pm)

Messages: Phone: (860) 885-2392 (Voice Mail)

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Dates: Sept. 8 – Dec. 15 with Final Exam on Dec. 17. No scheduled classes on Oct. 13 and Nov. 26 due to academic schedule.

Textbook: Peter Rob and Carlos Cornel, *Database Systems: Design, Implementation, & Management, Eighth Edition*, Course Technology Incorporated, 2009, 1-4239-0201-7

Course Objectives: The main objective of this course is to teach students the fundamental concepts underlying the current database technology, the relational database model. The course will attempt to solidify the concepts by exposing the student to a specific Database Management System (DBMS), SQL Server, that employs the relational model, and by introducing the student to a database query language, Transact SQL.

Software: This course will specifically use Microsoft SQL Server 2005 relational database software and the Microsoft Visio Professional database modeling software. These will be available to students as part of the MSDN Academic Alliance.

Supplies and Materials: Removable media will be required. A USB memory device with a minimum of 64MB is recommended.

Lab Assignments: Weekly assignments from the end of chapter problems or from additional instructor handouts will be given. These assignments will be due at the start of the second lab session following the assignment. The hand-in format will be hardcopy unless otherwise noted. No unexcused late hand-ins. Students are encouraged to interact with the instructor or other students on these assignments but must personally perform the necessary actions to complete the assignments.

Grading and Evaluation Criteria:

35 % of the grade is based on chapter examinations

35 % of the grade is based on a final examination

30 % of the grade is based on lab assignments

College Withdrawal Policy:

Students may withdraw, through the Registrar's Office, for any reason until December 15. The withdrawal process must be initiated by the student. Failure to do so will result in a semester grade based on the work completed before the student stopped attending the class.

Week	Topics	Text Assignments
1 9/8	Database Systems	Chapter 1 Chapter 1 problems and Appendix A
2 9/15	Data Models	Chapter 2 Chapter 2 problems
3 9/22	Chapter 1 & 2 Test The Relational Database Model	Chapter 3 Chapter 3 problems
4 9/29	Entity Relationship (ER) Modeling	Chapter 4 Chapter 4 problems
5 10/6	Entity Relationship (ER) Modeling	Chapter 4 Chapter 4 problems
6 10/20	Chapter 3 & 4 Test Introduction to Structured Query Language (SQL)	Chapter 7 Chapter 7 problems
7 10/27	Introduction to Structured Query Language (SQL)	Chapter 7 Chapter 7 problems
8 11/3	Introduction to Structured Query Language (SQL)	Chapter 7 Chapter 7 problems
9 11/10	Chapter 7 Test Advanced SQL	Chapter 8 Chapter 8 problems
10 11/17	Advanced SQL	Chapter 8 Chapter 8 problems
11 11/24	Chapter 8 Test Normalization of Database Tables	Chapter 5 Chapter 5 problems
12 12/1	Normalization of Database Tables	Chapter 5 Chapter 5 problems
13 12/8	Chapter 5 Test Advanced Data Modeling	Chapter 6 Chapter 6 problems
14 12/15	Chapter 6 Test Selected Topics	Chapter 13, 15 (topics will be assigned from these chapters) Selected problems
15		Final Exam (12/17)

Note: The foregoing course outline is subject to change as conditions warrant.