

CSC K233 Course Outline

Fall 2007

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 122E, Thames)

Instructor: Allan Anderson

Office: Thames Valley Campus, Room 204

Office Hours: Monday (2:00 pm - 3:00 pm)

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

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

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

E-mail: aanderson@trcc.commnet.edu

Written: Mailbox, Room 224

Dates: Aug. 27 – Dec. 10 with Final exam on Dec. 10. No classes on Aug. 27. Class will be held on Oct. 8 (Columbus Day observance) as make-up date.

Textbook: Peter Rob and Carlos Cornel, *Database Systems: Design, Implementation, & Management, Seventh Edition*, Course Technology Incorporated, 2007, 1-4188-3593-5

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

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

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