

# CSC K233 Course Outline

**Fall 2010**

**Course:** CSC K233 – Database Development I

**Program:** Computer Science

**Hours:** Lecture M 5:20 pm–8:05 pm (Room B/227) Lab M 8:10 pm-9:50 pm (Room B/227)

**Instructor:** Allan Anderson

Office: Room C106

Office Hours: Monday (1:00 pm - 2:00 pm, 4:00 pm – 5:15 pm

Wednesday (5:15 pm - 6:00 pm)

Messages: Blackboard Vista Mail preferred

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

E-mail: [aanderson@trcc.commnet.edu](mailto:aanderson@trcc.commnet.edu)

**Delivery Format:** on-ground with limited online via Blackboard Vista

**Dates:** Aug. 30 – Dec. 13 with Final exam on Dec. 13. No class Sept. 6

**Textbook:** Peter Rob and Carlos Cornel, *Database Systems: Design, Implementation, & Management, Eighth Edition*, Course Technology Incorporated, 2011, 0-538-46968-4  
Itzik Ben-Gan, *Microsoft SQL Server 2008 T\_SQL Fundamentals*, Microsoft Press, 2009, 0-7356-2601-4

**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 2008 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 9. 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.

<b>Week</b>	<b>Topics</b>	<b>Rob/Cornel Text Assignments</b>
1 8/30	Database Systems	Chapter 1 Chapter 1 problems and Appendix A
2 9/13	Data Models	Chapter 2 Chapter 2 problems
3 9/20	Chapter 1 & 2 Test The Relational Database Model	Chapter 3 Chapter 3 problems
4 9/27	Entity Relationship (ER) Modeling	Chapter 4 Chapter 4 problems
5 10/4	Entity Relationship (ER) Modeling	Chapter 4 Chapter 4 problems
6 10/11	Chapter 3 & 4 Test Introduction to Structured Query Language (SQL)	Chapter 7 Chapter 7 problems
7 10/18	Introduction to Structured Query Language (SQL)	Chapter 7 Chapter 7 problems
8 10/25	Introduction to Structured Query Language (SQL)	Chapter 7 Chapter 7 problems
9 11/1	Chapter 7 Test Advanced SQL	Chapter 8 Chapter 8 problems
10 11/8	Advanced SQL	Chapter 8 Chapter 8 problems
11 11/15	Chapter 8 Test Normalization of Database Tables	Chapter 5 Chapter 5 problems
12 11/22	Normalization of Database Tables	Chapter 5 Chapter 5 problems
13 11/29	Chapter 5 Test Advanced Data Modeling	Chapter 6 Chapter 6 problems
14 12/6	Chapter 6 Test Selected Topics	Chapter 13, 15 (topics will be assigned from these chapters) Selected problems
15 12/13		Final Exam

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