

Maryville University Course Syllabus
Spring Semester of 2010
3/10/10 – 4/28/10

Course Title: *Database applications (Oracle & Microsoft SQL Server).*
Course No: COSC 240 – 1M
Prerequisite: None
Credits: Three
Meeting time: Wednesdays 2nd Half Weekly 6:30pm – 9:20 p.m.
Meeting days: 3/10, 3/17, 3/24, 3/31, 4/7, 4/14, 4/21, 4/28
Meeting place: REID 2321

Instructor Dr. BaoPing Jia
Phone: (314)529-9524
Email: bjia@maryville.edu
Office: ABAC 3217

Office hours: MW: 12:45pm – 2:15pm, 3:30pm – 5:00pm,
M: 8:30am – 11:30am, and by appointment

Textbook: Murach's SQL Server 2008, by Bryan Syverson & Joe Murach,
published by Mike Murach & Associates, Inc. in 2008.
Software: Microsoft SQL Server Enterprise Edition/Oracle 8i

Course Description:

This is an introductory database programming and application course intended primarily for those major or minor in computer science and/or in (computer) software engineering. This course is also suitable for those who intend to use advanced database techniques in applications such as business, economics, and variety of research. Internet has now become everyday life, as a basic prerequisite for COSC440 internet/web programming and J2EE, SQL programming is the focus for this course. This course covers almost all chapters 1 – 15 with some exceptions. Topics include the following: basic (relational) database concepts, data manipulation, SQL skills/programming, basic database design, and elementary programming language for Structured Query Language (PL/SQL). All these topics are the prerequisites for more advanced Java (internet/web) programming and graduate level database courses.

Course Objective:

This is a database programming professional training course. The objective of the course is to allow the student to become familiar with the Oracle/Microsoft SQL Server based PL/SQL methods. By the end of the semester, students should be able to use Oracle and Microsoft SQL Server to work out simple database project and should be able to handle simple data manipulation by using PL/SQL, and should have basic understanding in the area of relational database and PL/SQL. In particular, after learning this course, students will have the skills of a professional SQL programmer.

Course requirements:

Students are expected to attend and participate in all classes, do all homework problems, participate in all the tests, and do all the assigned Oracle/Microsoft SQL Server projects. No early tests will be given. In the event of illness or grave circumstances, the instructor must be informed without delay. Only in such cases will there be an undiscounted make-up. (All make-

up tests must be closed book and closed notes.) Otherwise, the recorded make-up test score is equal to your make-up test score minus five times the number of days you delayed from the regular test schedule, e.g., if you do your make-up test twenty days after the regular test time, your recorded test score will be zero.

Homework:

Homework problems will be assigned at the end of each class. These problems are to be discussed in on each following class.

Projects:

There will be about two small Oracle/Microsoft SQL Server project assignments. All students must try very hard to finish the assignments on time.

Tests:

There will be two tests. Each test will be about one hour. Problems chosen for the tests will be from the lectures and all homework assignments, and will in general be of a slightly easier level than the assigned homework problems.

Instructional methods:

The class will begin with discussing previously assigned homework problems/projects followed by lectures over the day's subject. The time remaining will be used to answer and discuss questions. The course is interactive and Oracle 8i/Microsoft SQL Server Enterprise Edition is used in every section of the book.

Course calendar:

This course covers almost the whole book chapters 1 – 15 with some exceptions. This calendar is tentative. There may be some changes depending on our performance and other situations.

Week of:

- 3/10: Chapters 1 & 2: Database basics.
- 3/17: Chapters 3 – 5: How to code queries.
- 3/24: Chapters 6 & 7: Sub-queries and updates.
- 3/31: Chapters 8: Data types and functions. Test1.

- 4/07: Chapter 9: Database design basics.
- 4/14: Chapters 10 & 11: Database design basics and SQL.
- 4/21: Chapters 12 – 15: Procedures, functions and triggers.
- 4/28: Review on Programs using PL/SQL, procedures, functions, and triggers. Test2

Grading policy:

Two projects:	100	points
Two tests:	200	points
Total	300	points

The course grade will be based on your total score:

A, A-: >=270; B+, B, B-: >= 240; C+, C, C-: >= 210; D: >= 180; F: < 180.

Subject to Change Clause

This syllabus is subject to change at the discretion of the instructor to accommodate instructional and/or student needs.