



LINCOLN UNIVERSITY

Course Title	Information Systems Database Management	Instructor:	Prof. Leonid Romanyuk
Course No:	BA 353	Phone:	(510) 628-8024
Units:	3 units (= 45 lecture hours)	E-mail:	lromanyuk@lincolnuca.edu
Class hours:	Wednesday 12:30 pm – 3:15 pm	Office Hours:	MW 11:50 am -12:25 pm
Semester:	Spring 2012	Office Room:	402

REQUIRED MATERIALS:

TEXTBOOK: Concepts of Database Management, by Pratt & Adamski, 7th Edition, Course Technology, 2011, ISBN-10: 1111825912

REQUIRED TOOLS: Microsoft Office 2003, 2007, or 2010 and the Internet resources. Scientific or graphing calculator

OPTIONAL: Publisher's Web site student resources at <http://www.course.com/>

COURSE DESCRIPTION:

Explanation and comparison of the techniques and methodologies of database management systems in a business environment. Limitation and application of various DBMS; costs and benefits in selecting DBMS. (3 units) Prerequisite: BA 260 or BA 350

LEARNING OBJECTIVES:

The students will learn about the use and development of databases and explore today's leading-edge topics including the relational model, Query-By-Example and SQL, database normalization, creation and use of views, database design, functions provided by a database management system, data and database administration, and DBMS selection process. We will also discuss some advanced topics including distributed database management systems, client/server systems, data warehouses, object-oriented database management systems, Web access to databases, and XML.

INSTRUCTIONAL METHODS:

Lecture method is used in combination with the practical use of business software and the Internet to solve application problems. The emphasis will be on learning by doing. Every student must participate in an intensive classroom activity. Reading, writing, "business case study", and project assignments will be made throughout the course.

OTHER REQUIREMENTS:

All students are required to attend the class. Continuous assessment is emphasized. Written or oral quizzes will be given every week. Students must complete all assignments and take all quizzes, mid-term exam and final exam **ON THE DATES DUE**. Talking in class, using cell phones, coming late, leaving the room at times other than at break time is not allowed. Plagiarism/cheating will result in the grade "F" and a report to the administration.

ASSIGNMENTS AND PROJECTS:

Case studies, mini projects and other assignments will be given every week. Take a folder and create a Project Notebook. You will put in this folder printouts of the results of all your assignments and projects and storage media (floppy disk / CD disc / DVD disc / USB flash drive) with your work stored on it. The instructor can ask you to turn in this folder and grade your work at any time during the semester.

TESTING:

Classroom activities	every week	10%
Quizzes	every week	10%
Assignments	every week	10%
Mid-term exam	as scheduled	30%
Final exam	as scheduled	40%

There will be no make-up for a missed quiz or participation in a classroom activity. No make-up exams will be given unless you have the instructor's prior approval obtained in person before the exam date, with the exception of an extreme emergency. Late assignments will get no credit or reduced credit. *Students will not be allowed to use computers or cellular phones during tests.*

GRADING:

Less than 50% total is an "F"; 75% total is "C+". Other grades will be calculated "on the curve" from the scores above.

COURSE SCHEDULE:

Weekly schedule of topics is attached. Students should read every chapter of the textbook on the topic to be discussed in class before they come to class. Be ready to answer in writing all review questions and to solve problems at the end of the chapter.

MODIFICATION OF THE SYLLABUS:

This syllabus was updated on January 24, 2012. The instructor reserves the right to modify this syllabus at any time during the semester. An announcement of any changes will be made in the classroom.

SPRING 2012 SCHEDULE OF TOPICS AND REQUIRED READING

Textbook: Concepts of Database Management

Read every chapter on the topic to be discussed in class before you come to class.
Be ready to answer in writing all review questions at the end of the chapter.

Date	Topics	Chapter
1/18/12	Introduction to Database Management	1
1/25/12	The Relational Model 1: Introduction, QBE, and Relational Algebra	2
2/01/12	The Relational Model 2: SQL	3
2/08/12	The Relational Model 3: Advanced Topics	4
2/15/12	Database Design 1: Normalization	5
2/22/12	Database Design 2: Design Method	6
2/29/12	DBMS Functions.	7
3/07/11	Review MIDTERM EXAM	1 - 7
3/14/11	Spring recess	
3/21/11	Database Administration	8
3/28/10	Distributed Databases	9
4/04/11	Client/Server Systems. Web access to databases. XML	9
4/11/11	Data Warehouses. Rules for OLAP Systems	9
4/18/11	Object-Oriented Database Management Systems. UML	9
4/25/11	Hand-in all your laboratory work before 12:25 pm. Review	1 - 9
5/02/11	COMPREHENSIVE FINAL EXAM	1 - 9