

LIS 668-001 Information Systems Design¹

Prerequisite: LIS 636 or consent of instructor

Fall 2006
School of Library and Information Science
University of Kentucky

Instructor
Kwan Yi
Office: 518H King I Library
E-Mail: kwan.yi@uky.edu

Class Day/Hours/Place: Tuesday, 2:00pm-4:30pm, LCLI 359

Office Hour: Wednesday 10:00-11:00 & Thursday 14:00-15:00; by appointment

COURSE DESCRIPTION

- The general goal of this course is to provide the fundamental concepts, principles, and hand-on experience on database and information systems design.
- This course is designed as a first database course for MLIS students who do not have database experiences.

COURSE OBJECTIVES

Upon completion of this course, students are expected:

- To acquire an in-depth understanding of the fundamental concepts and theories of database and information systems.
- To understand the general process of database design and development
- To understand Web database
- NOT to train students as programmers or database developers

LIST OF TOPICS TO COVER

- Fundamental concepts in database and information system
- Database development process & database model
- Conceptual/logical/physical database design
- SQL
- Web database

¹ Last modified on August 28, 2006. This syllabus is subject to change. You will be notified if it is modified.

- HTML/ASP/JavaScript/MS Access

COURSE OVERVIEW

Date	Topics	
	<i>DB Concepts & Principles</i>	<i>Microsoft ACCESS</i>
Week 1 (Aug. 29)	Introduction to Database and Information Systems: Chapter 1	
Week 2 (Sep. 05)	Internet Information Systems: Chapter 2	HTML/CSS
Week 3 (Sep. 12)	Database development process & Data Models: Chapter 3	JavaScript (1)
Week 4 (Sep.19)	Conceptual Database Design (E-R model): Chapter 4	JavaScript (2)
Week 5 (Sep. 26)	Logical Database Design (E-R to Relational model): Chapter 5	Introduction to Microsoft Access
Week 6 (Oct. 03)	Logical Database Design (Defining Relational DB): Chapter 6	MS Access: Creating tables
Week 7 (Oct. 10)	EXAM I.	
Week 8 (Oct. 17)	Logical Database Design (Normalization): Chapter 7	MS Access: Normalization
Week 9 (Oct. 24)	Physical Database Design	ASP (1)
Week 10 (Oct. 31)	SQL (I): Chapter 9	ASP (2)
Week 11 (Nov. 07)	SQL (II): Chapter 8	MS Access: Queries
Week 12 (Nov.14)	Information on the Web: Chapter 10	
Week 13 (Nov.21)	Interaction between users and servers: Chapter 11	
Week 14 (Nov.28)	DB application (1): Chapter 12	
Week 15 (Dec.05)	DB application (2): Chapter 12	
Week 16 (Dec. 12)	EXAM II.	

TEXTBOOKS

REQUIRED:

Greg Riccardi. Database Management: with web site development applications.
Boston: Addison Wesley, 2003 (ISBN: 0-201-74387-6)

EVALUATION

Evaluation will be graded based on the total score you get on the following components of the course and the grading scale below:

Exams:	50%
Assignments:	50%

Grading scale:

100-90 for **A**; 89-80 for **B**; 79-70 for **C**; **Fail** if it is 69 or less

EXAM: Two exams will be given. The exams will be closed book/note and will test assigned readings and material discussed in class. The final exam will not be comprehensive. However, the instructor reserves the right to retest on material that was not appropriately comprehended. There are no make-up exams. Any uncoordinated, unexcused missed exam will result in a score of ZERO for that exam.

ASSIGNMENT: All assignments are due at the beginning of class on the date due. Late submission of assignments will NOT be assessed. The only acceptable circumstances for an extension or a delay without the penalty may be personal illness, illness in the immediate family (physician's certificate required), or other situations with instructor's permission.

COURSE-RELATED INFORMATION

Academic Integrity: Plagiarism and cheating are serious offenses and may be punished by failure on exam, paper or project; failure in course; and or expulsion from the University. For more information, refer to the University of Kentucky student code available at <http://www.uky.edu/StudentAffairs/Code>.

Need for Assistance: If you have any condition, such as a physical or learning disability, which will make it difficult for you to carry out the work as I have outlined it, or which will require academic accommodations, please notify me as soon as possible.

Missed Classes: You are responsible for obtaining material, which may have been distributed on class days when you were absent. This can be done through contacting a classmate who was present or by contacting the instructor during his office hours or other times.

Rule of the non-transferable: A same work prepared and submitted by a student for this course is not allowed to be transferable to other courses. Or vice versa. That is, a same work is prohibited from being graded for multiple courses.