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INFO 358-83 Data Modeling and Management

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Xavier University
INFO 358 Data Modeling and Management
Course Syllabus – Spring 2005

Section 83 W 6pm -- 8:30pm
4 Hailstone Hall

Professor:	Marianne Murphy	E-mail:	murphymc@xavier.edu
Office Location:	320 Hailstone Hall		
Office Hours:	Wed. 3 pm – 6pm	Mobile Phone:	(513) 313-0274

Required Texts:

Database Management Systems by Gerald V. Post; McGraw Hill;
Designing and Building Business Applications (Microsoft Access) by Gerald V. Post; McGraw Hill;
Designing and Building Business Applications (Oracle 9i) by Gerald V. Post; McGraw Hill;
ISBN: 0073664243 (Combined)

5 Course Objectives

- To understand the development and use of database systems in organizations
- To understand how IS can be used strategically for developing competitive advantage
- To understand the use of database systems in management and decision-making
- To develop data modeling skills
- To apply technical skills to solving an organizational problem
- To develop interpersonal and team interaction skills
- To further develop technical application skills

Academic Honesty

The expectation for this course is that each assignment will be completed by each member of the class without assistance or input from anyone else, unless otherwise stipulated in the written instructions for an assignment. Submission of any work completed in whole, or in-part, by anyone other than the student submitting the assignment will result in an **F grade for the course**. See Blackboard for further details.

WCB Mission

The Williams College of Business educates students of business, enabling them to improve organizations and society, consistent with the Jesuit tradition. This course will provide students with an understanding of the importance of Database Management Systems to an organization. Additionally, students will have the opportunity to apply this knowledge to real business problems through group interactions as well as hands-on microcomputer training.

Additional Materials

In addition to their textbooks each student will also need a USB flash memory stick or another medium for storing large files.

Grading

The following table lists the assignments for this course and the contribution of each category to a student's final grade. Students are encouraged to monitor their performance on Blackboard (blackboard1.xu.edu).

Assignments	Contribution to Final Grade	Final Letter Grade Scale	
Workbook exercises	15%	A	92-100%
In-class Quizzes	15%	B	83-91%
Midterm Exam	15%	C	73-82%
Final Exams	15%	D	63-72%
Group project	40%	F	below 63%
Total	100%		

Blackboard: Lectures Notes, Course Materials and Grades

Lecture Notes and Materials, as well as student grades will be made available to students via Blackboard. To obtain this information, students must access the Blackboard web site either through the <http://myxu.xu.edu> portal or at <http://blackboard1.xu.edu>. Lecture notes, an "assignment due" announcement and a "next assignment" announcement will be available by 7:00 am on the day of class. Please print a copy of the notes and bring them to class. Relative to students individual grades, please check the grade sheet regularly to ensure that your grades have been correctly assigned.

****This Syllabus may change at the discretion of the Professor****

Class Schedule

Date	Class Topics	Assignment	What is Due
01/12/05	Introduction	Read Chapter One and Two Workbook Exercise 1 (Envirospeed)	
01/19/05	Database Design	WB Exercise 2 (Crystal Tiger)	WB Exercise 1 (EnviroSpeed)
01/26/05	Database Design	Read Chapter Three	WB Exercise 2 (Crystal Tiger) Project Proposal
02/02/05	Data Normalization	WB Exercise 3 (EnviroSpeed)	Group Project Deliverable One
02/09/05	Data Normalization		WB Exercise 3 (EnviroSpeed)
02/16/05	Data Normalization	Read Chapter Four	Group Project Deliverable Two
02/23/05	Simple Queries		
03/02/05	Midterm Exam (Chapters 1, 2, 3, 4)	Read Chapter Five WB Exercise 4 (Crystal Tiger)	Group Project Deliverable Three
03/09/05	Database Queries and SQL		WB Exercise 4 (Crystal Tiger)
03/16/05	Database Queries and SQL	Read Chapter Six WB Exercise 5 (EnviroSpeed)	Group Project Deliverable Four
03/23/05	Forms and Reports	Read Chapter Seven WB Exercise 6 (Crystal Tiger)	WB Exercise 5 (EnviroSpeed)
03/30/05	Database Integrity	WB Exercise 7 (EnviroSpeed)	WB Exercise 6 (Crystal Tiger)
04/06/05	Review for Final and Project Reviews		WB Exercise 7 (EnviroSpeed)
04/13/05	Project Presentations		Final Group Project
04/20/05	Project Presentations		
04/27/05	Final Exam (Chapters 5, 6, 7, 9)		

Assignments

In-class quizzes (15%)

It is often difficult for students and the instructors to assess whether database concepts are fully understood. Therefore, as deemed necessary quizzes will be periodically given. These quizzes will be open book and open notes.

Workbook Exercises (15%)

Database design and concepts is only fully learned when applied to business problems. The workbook exercises help the students apply the concepts to a business problem. There are two workbooks. When applicable, each assigned exercise must be applied to both Access and Oracle 9i. Oracle is available in the IS lab. Additionally, a student PC disk is available through the IS Graduate Assistant. The printouts as well as your USB stick must be submitted for grading.

Midterm Exam (15%)

Exam will consist of multiple choice and various exercises. A sample exam will be posted prior to exam date.

Final Exam (15%)

Exam will consist of multiple choice and various exercises. A sample exam will be posted prior to exam date.

Group Projects (40%)

Solving business problems is further explored through a group project. Each group must consist of at least 2 but no more than 3 students. Each group is required to research some industry and determine a business problem that an Information System can solve. There are four deliverables for this project. Details and a check list for each deliverable will be available on blackboard.