MASTER SYLLABI

7/1/02

MINNESOTA SCHOOL OF BUSINESS
GLOBE COLLEGE
TECHNICAL COURSE SYLLABUS

COURSE NUMBER:	**DB210**	COURSE TITLE:	DATABASE DESIGN
COURSE LENGTH:	12 WEEKS	CREDIT HOURS:	4
PREREQUISITES:	DB100	CONTACT HOURS:	60 (LECTURE 20/LAB 40)

TEXT: DATABASE MANAGEMENT SYSTEMS, Second Edition with Student CD-ROM, Gerald V. Post, 2002, McGraw-Hill,
ISBN: 0-07-250426-9.

COURSE DESCRIPTION: In this course students learn to integrate relational database concepts into the design of modern database management systems. Students learn to create and normalize data models; to build physical databases and manipulate data using Structured Query Language; to manage database systems; and to understand client/server, web, and data warehouse applications

COURSE OBJECTIVES: Upon completion of this course, students will be able to understand:

1. Define relational database concepts
2. Analyze business information needs
3. Identify entities and relationships
4. Design logical data models
5. Draw data model diagrams
6. Perform data normalization
7. Build physical databases using SQL Data Definition Language
8. Enter and update data using SQL Data Manipulation Language
9. Join tables, query data and perform calculations using SQL
10. Perform basic database management and administration
11. Explain client/server and web applications of database systems
12. Describe data warehouse design strategies

COURSE OUTLINE

	Topics and Class Activities	**Required Reading**
Week 1	Introduction to relational database theory and concepts	
Week 2	Database analysis & design	Chapter 1
Week 3	Data modeling	Chapter 2
Week 4	Data normalization	Chapter 3
Week 5	SQL Data Definition Language	Chapter 4
Week 6	SQL Data Manipulation Language	Chapter 5
Week 7	Advanced SQL	Chapter 7, Appendix & Handouts

Week 8	Client/server applications of database systems	Chapters 6 & 8
Week 9	Database management and administration	Chapter 10
Week 10	Databases on the web	Chapter 11
Week 11	Data warehousing	Handouts
Week 12	Final Exam & Project Due	

INSTRUCTIONAL METHODS: Classes will consist of instructor lectures, demonstrations, tutorials, hands-on exercises, assignments, and a project. Students will be assigned reading from required texts and instructor handouts. Class will consist of 20 hours of lecture. Students should expect to spend time outside of class lecture and lab time for reading, studying, and additional lab work.

EVALUATION METHODS:

2 Midterm Tests (50 points)	100	points
1 Final Exam (100 points)	100	points
5 Exercises (20 points)	100	points
1 Project (150 points)	150	points
Attendance and Participation	50	points
	500	points

SUPPLIES REQUIRED