**Course Syllabus**
**MIS 3775 - Database Management**

**MIS 3775. DATABASE MANAGEMENT.** (3) Focus on (1) designing programs written in a high-level language for business applications; (2) selecting appropriate file organization; (3) designing data models with electronic commerce implications; and (4) utilizing appropriate database management system programs. Prerequisite: MIS 2770 or equivalent

**Required Texts**

**Major Goals and Objectives**
The major goals and objectives are as follows:

- To provide a theoretical basis for database design, including study of data structures, data models, normalization and comparisons of object oriented and relational systems.
- To provide practical applications of database management systems, including programming applications using SQL and a relational database management system.
- To explore implications for database management systems for Internet and electronic commerce applications.

**Methodology and Course Procedures**
- Lectures, class discussions, and demonstrations
- Reading and homework assignments
- Computer lab assignments using a database management software package

**Course Learning Expectations:** The following six standards have been set for this course. A separate document is available on the Web (http://www.misprofessor.net/mis3775_expect.doc) that provides a complete listing of specific learning expectations that have been set for the course.

<table>
<thead>
<tr>
<th>No.</th>
<th>Standard</th>
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<tbody>
<tr>
<td>1.0</td>
<td>The student will examine the theoretical basis for database design.</td>
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<td>2.0</td>
<td>The student will examine logical database design components and structures.</td>
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<td>3.0</td>
<td>The student will examine procedures for locating records in relational database systems.</td>
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<td>4.0</td>
<td>The student will examine Internet and client/server database applications.</td>
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<td>5.0</td>
<td>The student will demonstrate practical application procedures while using a relational DBMS.</td>
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<td>6.0</td>
<td>The student will examine physical design elements and database administration.</td>
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Instructor Expectations: Students are expected to study all assigned chapters, participate in class activities, complete assigned class and homework projects, and complete an extensive project involving database design and programming using a relational database management software program. All assignments, projects, and tests must be completed by the assigned dates in order to be acceptable. As a minimal effort, students are expected to attend class on a regular basis and to be alert during class. Failure to attend class on a regular basis, focus on class activities, or participate in class activities may affect the final grade for the course. Excess absences (4 or more) for any reason during the semester may result in a lowered final grade for the course. Assignments and announcements will be posted to the web site, so students should check it on a regular basis. The following grading scale will be used.

**Evaluation**

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<thead>
<tr>
<th>Grade</th>
<th>Minimum Score</th>
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<tr>
<td>A</td>
<td>$90$</td>
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<tr>
<td>B</td>
<td>$80$</td>
</tr>
<tr>
<td>C</td>
<td>$70$</td>
</tr>
<tr>
<td>D</td>
<td>$60$</td>
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<tr>
<td>F</td>
<td>Below $60$</td>
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**Note:** The final average will be determined by dividing the total number of points earned by the total number of points possible for all evaluated activities during the semester. Absence from an exam must be cleared in advance and will not be approved except for unusual circumstances, such as a serious illness or participation in an event sponsored by the University. At the discretion of the instructor, a makeup exam or a comprehensive exam will be used to substitute for the missed exam. In this event, the date and location for the exam will be determined by the instructor. If more than one exam is missed for any reason, the student should drop the course. Students will have an option of taking and passing the MOS exam in lieu of a final exam in the course. The final exam will include questions about Access 2003 procedures and applications.

**Conduct:** Your instructor will adhere to university policies relating to cheating and class conduct. (Refer to the Student Handbook sections on Academic Misconduct and Classroom Misconduct for information.) One item in the handbook specifies that students are not to cause disturbances in the classroom. Any behavior that is distracting for other students or your instructor is not allowed and may result in the student being asked to drop the course. Examples of disturbances or distracting behavior during lectures include coming late or leaving early, talking with other students, sleeping in class, using computers during lectures, bringing telephones or pagers that ring or beep during class, and bringing guests.

**Warning:** A prerequisite and upper division check will be done once the first class roll has been issued. If you do not have the appropriate upper division approval designated on your advisor slip and/or prerequisite for this course, you may be administratively dropped. This check will not be completed until after the dates for the official add period. If you do not have the required upper division approval or prerequisites, it is one of the student’s responsibilities to correct the situation during the official add period.

**Textbook Contents**

- Database Concepts and Corporate Resource
- File Storage and Retrieval
- Data Modeling
- Database Management System Concept
• Relational Database Model
• Logical Database Design
• Physical Database Design
• Relational Data Retrieval: SQL
• Object-Oriented Database Administration and Data Dictionaries
• Database Control Issues
• Client/Server Database and Distributed Databases
• The Data Warehouse
• Database and the Internet

Applications

• Principles of Relational Database Management Systems
• Creating a Database Using Design and Datasheet Views
• Browse Windows
• Modifying Records and Database Structure
• Retrieving Data with Queries and SQL
• Using SQL to Retrieve Data
• Maintaining a Database
• Designing Report Layouts
• Including Hyperlinks OLE Fields, and Subforms
• Publishing the Database to the Internet
• Sorting and Indexing
• Establishing Relationships for Window Views
• Creating Customized Forms, Reports, and Combo Boxes
• Building Custom Menu Screens Using Macros, Wizards, and Switchboard Manager
• Integrating Excel Worksheet Data With an Access Database

Graded Activities

• Periodic Exams (3): 300 pts (concepts)
• Final Exam: 100 pts (Access)
• Access Projects: 100 pts
• Comprehensive Project: 100pts
• Home work Assignments (concepts): Max of 80 pts
• Class Participation: 20 pts

Total: Max of 700 pts

20 points out of 700 pts will be determined by class participation based on qualitative criteria as determined by the instructor. Criteria will relate to the contribution of the student relative to class activities. Class attendance will be an integral component of the class participation grade.

Note: Services are available to assist students. Students needing academic counseling to improve overall grades may want to consult the counseling office in Wilder Tower.
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(You need to use U of M user-id and pw to access this site)

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TBA