Course Syllabus
MIS 7605/8605 - Business Database Systems

Instructor: Mr. David Masterson, Adjunct Instructor
Office Location: Room 300, Fogelman Business Building
Office hours: Before and after class, or by appointment
Phone/E-mail: (901) 678-4613

Prerequisite: MIS 7060 or equivalent

Expected Student Expertise: All students taking this course are expected to be conversant in the following areas: File, record, and field concepts and structure; Disk concepts, such as tracks and cylinders, File organization and access methods (including indexing concepts and hashing routines); and general programming logic and concepts. Students will be expected to have expertise with a DBMS or to obtain the expertise during the first six weeks of the semester.

Textbook


Course Overview and Objectives: This course is a broad survey of all major topics in the database field, from an applied perspective. The initial emphasis will be on relational database concepts, logical design, physical design, and SQL access. Supporting topics will include the entity-relationship model, database administration, data dictionaries and catalogs, backup and recovery, concurrency control, and database security. Contemporary topics such as distributed database procedures, client/server database environment, data warehousing, and data mining are included in the course. Procedures for determining and implementing appropriate database design techniques are included in the course. An integral part of this course will include exposure to, and applications relating to, the Oracle DBMS, release 11, in a client-server environment.

Activities: Lectures, assignments, discussions, presentations, projects, hands-on exercises, and exams. Late submission of completed assignments and projects will not be accepted without prior approval from the instructor.

Communication: This is a university graduate course in business operations and information technology. The ability to communicate in clear, well-organized, and grammatically correct English is an absolute requirement. Since it is frequently impossible to ascertain the quality of content when the expression of that content is poor, quality of expression of ideas will be considered as a significant part of the grade of all exams and projects.
Grading Scale:

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<tr>
<th>Grade</th>
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<tbody>
<tr>
<td>A+</td>
<td>98 – 100</td>
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<tr>
<td>A</td>
<td>92 – 97</td>
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<tr>
<td>A-</td>
<td>90 – 91</td>
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<td>B+</td>
<td>88 – 89</td>
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<td>B</td>
<td>82 – 87</td>
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<td>B-</td>
<td>80 – 81</td>
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<td>C+</td>
<td>78 – 79</td>
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<td>C</td>
<td>72 – 77</td>
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<td>C-</td>
<td>70 – 71</td>
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<td>D</td>
<td>60 – 69</td>
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<td>F</td>
<td>59 and below</td>
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Note: Points will be assigned to each graded activity. The final average for the semester will be computed by dividing the total points possible by the total points earned during the semester. The MIS areas does not permit posting of grades at the end of 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, a death in the immediate family, or required participation in an event sponsored by the University. At the discretion of the instructor, a makeup exam or the comprehensive final exam will be used to substitute for an approved missed exam.

Attendance: Students are expected to attend all class meetings, arrive on time, and stay until the scheduled ending time. Since some activities require participation in class, the final grade may be adjusted due to excess absences (4 or more) from class for any reason.

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 during lectures. Examples of disturbances or distracting behavior include coming late or leaving early, sleeping during class, talking to other students in class, working on computers during lectures, bringing telephones or pagers that ring or beep during class, and bringing guests into the classroom.

List of Typical Topics:

- Introduction to Course and Instructor
- The Database Environment and Development Process
- The Enhanced E-R Model and Business Rules
- The Relational Model and Logical Design
- Physical Database Design and Performance
- Oracle SQL Scripts
• Oracle Database Implementation
• The Client/Server Database Environment
• The Internet Database Environment
• Data and Database Administration
• Distributed Database
• Data Warehousing and Data Mining

**Additional requirements for 8605 students:** Doctoral students will be responsible for all of the work stated above, plus an assigned project. An additional reading list will be provided for doctoral students.