

Course: MI-783 Database Structures and Processing (Sec. 101)

Time & Loc: Mon: 6:00pm – 8:50am in R-300

Instructor: Dr. Jeffrey Blessing

Email: blessing@msoe.edu and www.msoe.edu/~blessing/mi783

Office: R-305

Hours: Mon: Right before class is a good time, otherwise:
Mon, Wed: 2:00pm – 2:50pm, and by appointment.

Phone: 277-7194

Text: *Database Processing: Fundamentals, Design & Implementation*, 10th edition, by David M. Kroenke, Ph.D., Prentice Hall, 2006, ISBN 0-13-167272-X

Goals: An introduction to the elements of database management systems (DBMS) is presented in this course. Several database models are covered (Hierarchical, Network, and Relational), with the Relational database model emphasized as the most important of the three. Entity relationship diagrams and the industry standard IDEF1X are used to illustrate the concepts of data modeling and database design. Schemas and normalization are also covered in their relationship to design. Relational algebra is used as a basis for the understanding of the industry standard Structured Query Language (SQL). The use of relational databases as persistence layers for object-oriented languages is described through the presentation of database drivers and object-relational mapping mechanisms. (prereq: one course in computer programming).

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| <i>Grading*:</i> | Assignments | 30% |
| | Quizzes-Tests | 30% |
| | Final (week 11) | 30% |
| | Attendance+ | 10% |

* No incomplete grades will be given without very extenuating circumstances.

Attendance: + Attendance will be taken at each lecture. If ten absences are recorded, the attendance portion of the grade drops to zero. Exam and Quiz material will come from both the textbook and classroom discussions.

Class Sharing: You are encouraged to share information found in newspapers, books, periodicals, on the web, etc. related to the topics in this course. You can even go as far as to show another student your work. However, you are not to give your work to other students. If you use content from another source, you must reference that source in your work. Any attempt to pass off someone else's work as your own is plagiarism and is subject to academic discipline.

Late Policy: Assignments are due at the beginning of the class period that was designated as their due date. A 10% penalty will be assessed for each day an assignment is late.