

Computer Science 450 Sec. 1

TTh 12:00-1:50PM, Room: SH 160

Instructor: Lindsay Jamieson, SH 169

Contact Information Phone: x4474, Email: lhjamieson@smcm.edu

Office Hours: 1:20-2:30 M, 2-3 T, 2-3 T and by appointment

Textbook: “Fundamentals of Database Systems” 5th ed., Elmasri and Navathe

Course Description:

(From the course catalog)

This course examines the concepts of databases. Topics include flat, hierarchical and relational database models; entity attribute relationship modeling; relational calculus; data normalization; functional dependence; data integrity; transactions and rollback; data security; distributed databases; information and knowledge management; object-relational mapping; and object-oriented databases. Prerequisite: COSC 201; and MATH 200 or MATH 281.

Objectives:

By the end of this course, students should be able to:

1. Discuss data and how to model it
2. Create relational and object databases to organize specific data descriptions
3. Use SQL
4. Utilize data storage and algorithms related to databases
5. Identify and Discuss transactions, concurrency and recovery

Schedule:

The schedule for this class will be published on Blackboard. At least one project and the midterm exam will occur and be graded before October 15th.

Evaluation:

There will be a midterm exam, a cumulative final exam, and 3 projects in this class:

1. Schema/Diagram Project - 15%
2. SQL Project - 15%
3. Object Oriented Database Project - 15%
4. Mid-term Exam - 20%
5. Final Exam - 20%
6. Participation - 5%
7. Homework - 10%

Policies:

1. Academic Integrity - Please refer to the Student Handbook Article III Section 1 for definitions of Cheating, Plagiarism, Falsification and Resubmission of work. Violations of these types will be dealt with accordingly.
2. Work “In Groups” - Outside of class and in class, you may discuss concepts together. However, submissions should be in your own words.
3. Late Submissions - Late work will suffer a 10% penalty for every 24 hours the work is late. This means that if a project is due at 5PM Monday and is handed in anywhere from 5:01PM Monday until 5PM Tuesday, it will have a 10% late penalty.
4. Attendance - Attendance is expected. You may have 2 absences without penalty. For every two absences after that, your final grade will be reduced one step (ie. A- becomes B+).
5. Cell Phones - Please turn cell phones to silent or off during class. You get one freebie. After that, any interruptions by cell phones may result in you being asked to leave and counted as absent for the class period.
6. Computer Usage - During class time computers may only be used for class related activities. This means, specifically, no email and no chat clients. Unless the current class activity requires internet usage, no internet activity of any kind is acceptable. Again, you get one freebie. Repeated offenses may result in you being asked to leave and counted as absent for the class period.
7. Tardiness - Repeated and excessive tardiness is rude to me and your classmates. Again, you get one freebie. Repeated offenses may result in you being told that you were never here for that class period. If you have a legitimate commitment elsewhere that may result in your tardiness, let me know ahead of time.