

**Metropolitan State University of Denver**  
**Department of Mathematical and Computer Sciences**  
CS 3810 – Principles of Database Systems  
Fall 2018, CRN 52225, Section 1, TR 2:00 PM – 3:50 PM, AES 220

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**Instructor:** Dr. Salim Lakhani

**Email:** [slakhani@msudenver.edu](mailto:slakhani@msudenver.edu)

**Office Hours:** Monday and Wednesday – 3:00 PM to 4:00 PM  
Tuesday and Thursday – 4:00 PM to 5:00 PM  
Tuesday and Thursday – 7:00 PM to 8:00 PM  
and by appointment.

**Office Location:** SI 3035

**Voice Mail:** (303) 556-5416

**Moodle Link:** <https://gouda.msudenver.edu/moodle/> **Enrollment Key:** 52225

**Materials:**

Text: *Data Structures: Database Systems: Design, Implementation, & Management* by Carlos Coronel and Steven Morris

Hardware and Software: MySQL Database Server, Maria DB, MongoDB, UMLet

**Prerequisites:** CS 2050 (Computer Sciences 2) and MTH 1410 (Calculus 1)

**Course Description:** This course covers the principles and methodologies of database design, and techniques for database application development. The topics covered include relational algebra, SQL queries, normalization, entity-relationship model, SQL/Host-language interface, stored procedure, object-oriented databases, and semi-structured databases.

**Study Time:** Most students find that computing assignments take substantially more time to develop, produce, and test than assignments in other disciplines. Be prepared to spend significant amount of time both on computer and off. An excellent approach is to plan completion of an assignment two days before due date, to allow for unforeseen problems, and to meet me for help. Outside of class time is estimated at 8-12 hours per week. Some students will spend much more time because of interest. This time will be spent reading assigned material in the text, preparing to discuss questions for class participation, completing homework assignments, and computer projects.

**Grading:** You are responsible for your scores by completing the assignments and tests as instructed. I am responsible for helping you learn the material as best I can and assess you for that learning. There is no curve for translating scores to grades. Class grade will be based on the following:

<i>Description</i>	<i>% Weight</i>
Test # 1	15 %
Test # 2	15 %
Comprehensive Final Exam	20 %
Quizzes and Classwork	10 %
HW and Projects	40 %

Letter grades will be assigned as follows:

	A+	A	A-	B+	B	B-	C+	C	D+	D	D-	F
Average Grade (%)	98-100	92-98	90-92	88-90	82-88	80-82	78-80	70-78	68-70	62-68	60-62	<60

Tests and Final Exam will cover all materials including lectures, reading materials in the text, assignments, and handouts.

**Homework Assignments:** Homework is due by midnight on the due date, and must be substantially complete and correct, or they will be returned for further work (and will be considered late). Homework received in the next week receives a maximum of 50%; no homework will be accepted more than one week late. Homework finished early can be reviewed by me for errors.

**Quizzes and Classwork:** All quizzes and classwork will be based on material covered in the class. No makeup is available for quizzes and classwork; one lowest quiz or classwork score will be dropped.

**Make-up Exams:** No student may make up more than one exam. Arrangements for making-up a missed exam should be made before the next class meeting following the exam. Once I have returned exams to the class, it is too late for a make-up. The score on the final exam can be substituted for the missing exam if it is too late to do the make-up. A grade of zero will be recorded for all other missed exams.

**Course Policies:** Students are responsible for full knowledge of the provisions and regulations pertaining to all aspects of their attendance at MSU Denver, and should familiarize themselves with the following policies:

1. GENERAL UNIVERSITY POLICIES
2. GRADES AND NOTATIONS including WITHDRAWAL FROM A COURSE, ADMINISTRATIVE WITHDRAWAL, and INCOMPLETE POLICIES  
Students should be aware that any kind of withdrawal can have a negative impact on some types of financial aid, including scholarships.
3. ACADEMIC DISHONESTY
4. POLICY STATEMENTS ON SEXUAL MISCONDUCT
5. ACCOMMODATIONS TO ASSIST INDIVIDUALS WITH DISABILITIES
6. CLASS ATTENDANCE
7. ELECTRONIC COMMUNICATION (STUDENT EMAIL) POLICY

For a complete description of these policies go to <https://msudenver.edu/math/policies/>

For a copy of the official syllabus for the course which includes the Learning Objectives for the course go to: <https://mcs.msudenver.edu/degrees/courses/official-syllabi/computer-science>

**Withdrawal Dates:**

- ◆ 100% refund: Sunday, August 26, 2018
- ◆ 50% refund: Wednesday, September 5, 2018
- ◆ Last Day for W: Friday, November 2, 2018

**Holiday Information:** Labor Day: September 3, 2018 (No Classes)  
Fall Break: November 19 to November 25 (No Classes)