

## **COSC 3380 – Design of Database Systems – Spring Semester 2022**

**Instructor:** Dr. Uma Ramamurthy ([uramamur@bcm.edu](mailto:uramamur@bcm.edu))

**Time:** Tues & Thurs – 5:30 pm to 7:00 pm

**Location:** Synchronous Online Class on Microsoft Teams

**Text Book:** Fundamentals of Database Systems, 7<sup>th</sup> Edition,  
by Ramez Elmasri, and Shamkant B. Navathe

**Topics to be covered:**

- Introduction to Databases
- Relational Data Model
- Structured Query Language (SQL)
- Conceptual Modeling & Database Design
- Database Design Theory and Normalization
- Database Security
- Distributed databases and NOSQL Systems

**Important Dates:**

**Midterm Exam – Thursday, March 10, 2022**

**Final Exam – Tuesday, May 10, 2022**

**Grading:**

COSC 3380
Team Project & Presentations – 40%
Midterm exam - 20%
Final exam - 30%
Class Participation – 10%

**COVID-19 Information:**

Students are encouraged to visit the University's [COVID-19](#) website for important information including on-campus testing, vaccines, diagnosis and symptom protocols, campus cleaning and safety practices, report forms, and positive cases on campus. Please check the website throughout the semester for updates.

## **Vaccinations:**

Data suggests that vaccination remains the best intervention for reliable protection against COVID-19. Students are asked to familiarize themselves with pertinent [vaccine information](#), consult with their health care provider. The University strongly encourages all students, faculty and staff to be vaccinated.

## **Reasonable Academic Adjustments/Auxiliary Aids:**

The University of Houston complies with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, pertaining to the provision of reasonable academic adjustments/auxiliary aids for disabled students. In accordance with Section 504 and ADA guidelines, UH strives to provide reasonable academic adjustments/auxiliary aids to students who request and require them. If you believe that you have a disability requiring an academic adjustments/auxiliary aid, please contact [the Justin Dart Jr. Student Accessibility Center](#) (formerly the Justin Dart, Jr. Center for Students with DisABILITIES).

## **Excused Absence Policy:**

Regular class attendance, participation, and engagement in coursework are important contributors to student success. Absences may be excused as provided in the University of Houston [Undergraduate Excused Absence Policy](#) and [Graduate Excused Absence Policy](#) for reasons including: medical illness of student or close relative, death of a close family member, legal or government proceeding that a student is obligated to attend, recognized professional and educational activities where the student is presenting, and University-sponsored activity or athletic competition. Under these policies, students with excused absences will be provided with an opportunity to make up any quiz, exam or other work that contributes to the course grade or a satisfactory alternative. Please read the full policy for details regarding reasons for excused absences, the approval process, and extended absences. Additional policies address absences related to [military service](#), [religious holy days](#), [pregnancy and related conditions](#), and [disability](#).

## **Recording of Class:**

Students may not record all or part of class, livestream all or part of class, or make/distribute screen captures, without advanced written consent of the instructor. If you have or think you may have a disability such that you need to record class-related activities, please contact the [Justin Dart, Jr. Student Accessibility Center](#). If you have an accommodation to record class-related activities, those recordings may not be shared with any other

student, whether in this course or not, or with any other person or on any other platform. Classes may be recorded by the instructor. Students may use instructor's recordings for their own studying and notetaking. Instructor's recordings are not authorized to be shared with *anyone* without the prior written approval of the instructor. Failure to comply with requirements regarding recordings will result in a disciplinary referral to the Dean of Students Office and may result in disciplinary action.

### **Syllabus Changes:**

Due to the changing nature of the COVID-19 pandemic, please note that the instructor may need to make modifications to the course syllabus and may do so at any time. Notice of such changes will be announced as quickly as possible through MS Teams and UH Email.

### **Resources for online learning:**

The University of Houston is committed to student success, and provides information to optimize the online learning experience through our [Power-On](#) website. Please visit this website for a comprehensive set of resources, tools, and tips including: obtaining access to the internet, AccessUH, and Blackboard; requesting a laptop through the Laptop Loaner Program; using your smartphone as a webcam; and downloading Microsoft Office 365 at no cost. For questions or assistance contact [UHOnline@uh.edu](mailto:UHOnline@uh.edu).

### **UH Email:**

Please check and use your CougarNet email for communications related to this course. To access this email, [login](#) to your Microsoft 365 account with your CougarNet credentials.

### **Webcams:**

Access to a webcam is required for students participating remotely in this course. Webcams must be turned on during exams as needed to ensure the academic integrity exam administration.

### **Honor Code Statement:**

Students may be asked to sign an honor code statement as part of their submission of any graded work including but not limited to projects, quizzes, and exams: "*I understand and agree to abide by the provisions in the (select: [University of Houston Undergraduate Academic Honesty Policy](#), [University of Houston Graduate Academic Honesty Policy](#)).*"

*understand that academic honesty is taken very seriously and, in the cases of violations, penalties may include suspension or expulsion from the University of Houston."*

### **Helpful Information**

**Coogs Care:** <https://www.uh.edu/dsaes/coogscare/>

**Student Health Center:** <https://www.uh.edu/healthcenter/>