INSTRUCTOR:
Nurcan Yuruk, Ph.D., Department of Computer Science
E-mail: nurcan.yuruk@utdallas.edu
Office: ECSS 3.211
Office hours:
Tuesday: 10am-11am
Thursday: 10am-12pm

TA contact information will be posted on eLearning once it becomes available.

Course Pre-requisites, Co-requisites, and/or Other Restrictions

Course Description

Student Learning Objectives/Outcomes
Study methods, principles and concepts that are relevant to the design of database systems. Analyze issues related to database systems from several perspectives (designer, programmer, user, administrator).

Required Textbooks and Materials

Evaluation:
Your grade for the course will be based on the following percentages:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Exam-1</td>
<td>20%</td>
</tr>
<tr>
<td>Exam-2</td>
<td>20%</td>
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<tr>
<td>Exam-3</td>
<td>15%</td>
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<tr>
<td>Quizzes</td>
<td>15% (5 quizzes)</td>
</tr>
<tr>
<td>Assignments</td>
<td>15% (5 assignments)</td>
</tr>
<tr>
<td>Final Project</td>
<td>15% (group project)</td>
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Letter grades will be assigned according to the following scale:

A: 93-100
A-: 90-92
B+: 85-89
B: 80-84
B-: 75-79
C+: 70-74
C: below 70

**Tentative Course Schedule**

| Chapter 1, 2: Introduction to Databases |  |
| Chapter 3: Entity Relationship Model |  |
| Chapter 4: Enhanced Entity Relationship Model * |  |
| Chapter 5: Relational Model |  |
| Chapter 9: ER/EER to Relational Mapping |  |
| Chapter 8: Relational Algebra * |  |
| Exam 1 |  |

| Chapter 6: Basic SQL |  |
| Chapter 7: Complex SQL * |  |
| Chapter 14: Normalization * |  |
| Chapter 15: Database Design Algorithms and Further Dependencies |  |
| Chapter 10: SQL Programming (PL/SQL) * |  |
| Exam 2 |  |

| Chapter 17: Indexing Structures for Files |  |
| Chapter 18: Algorithms for Query Processing and Optimization |  |
| Chapter 21: Introduction to Transaction Processing |  |
| Chapter 22: Concurrency Control Techniques |  |
| Chapter 23: Database Recovery Techniques |  |
| Chapter 24: NoSQL Databases |  |
| Exam 3 |  |

* Quizzes will be held on practical subjects.

**Exams**

All exams will be held at the Testing Center. Please register for ALL your exams for the entire semester during the first two weeks of semester, or no later than 72 hours prior to exam date (seat might not be available), via this link:

[https://ets.utdallas.edu/testing-center](https://ets.utdallas.edu/testing-center)

“Student Guidelines” for Testing Center:
[https://ets.utdallas.edu/testing-center/students/](https://ets.utdallas.edu/testing-center/students/)
Communication

The best way of communication with the Instructor and course TA is through email. Since classes are over crowded, when you send an email, make sure you include your course number, section number, net-id and full name at the end of email message. Each student is responsible for the content/instructions of email communications.

Announcements, assignments and projects will be posted on eLearning system. Students will turn in their assignments/projects through eLearning portal.

Course Policies

- Assignments should be turned in no later than the deadline announced by the instructor of this class. Turn in what is completed by the deadline for partial credit. No late submissions will be accepted.

- You should do your own work on exams, projects and assignments. Copying another student’s work is not acceptable. Any indication of cheating and/or plagiarism on an exam/assignment/project will be an automatic 0 (zero) for the exam/assignment/project for all students involved. Solutions copied from the internet, instructor's manual, etc. will be also given zero credit.

- Regular class attendance and participation is expected and is the responsibility of each individual. The department policy for attendance is: three consecutive absences result in one letter grade drop and four consecutive absences result in an F. If a student should elect not to attend a class, (s)he is responsible for any handouts, announcements, reading material and contents of missed lectures.

- During the lectures, cell phones are not allowed. This is due to two important reasons: 1. It potentially causes distraction and this affects the overall quality of the lecture. 2. Research shows student performance is adversely affected by digital device use and those students who are engaged in cell phone/laptop use receive lower final grades as compared to their peers who do not use any electronic device and take paper and pen notes.

- Once you come to class, it is not appropriate to leave the class early for any reason. If you know you have to leave early for an unavoidable and important reason, make sure you sit close to the door and leave the classroom without distracting others while leaving. For the same reason, you also make sure you come to class on time.

- There will be no makeup exams unless there is a serious conflict that prevents you to take the exam on scheduled date and time and prior notification of such a condition is required.

- If there are questions/doubts about grading, please see the grader or instructor within one week of the grade announcement.
Disability Services

"It is the policy and practice of The University of Texas at Dallas to make reasonable accommodations for students with properly documented disabilities. However, written notification from the Office of Student AccessAbility (OSA) is required. If you are eligible to receive an accommodation and would like to request it for this course, please discuss it with me and allow one week advance notice. Students who have questions about receiving accommodations, or those who have, or think they may have, a disability (mobility, sensory, health, psychological, learning, etc.) are invited to contact the Office of Student AccessAbility for a confidential discussion. OSA is located in the Student Services Building, suite 3.200. They can be reached by phone at (972) 883-2098, or by email at studentaccess@utdallas.edu."

See also UTD's policies at http://go.utdallas.edu/syllabus-policies

This syllabus is subject to change at any time at the discretion of the Professor.