

# University of North Texas at Dallas

Fall 2025

## Syllabus

CSCE4350: Introduction to Database Systems Design (3 hrs)	
<b>School</b>	Business
<b>Program</b>	Information Technology
<b>Instructor name</b>	Dr. Saif Al-Sultan
<b>Office Location</b>	FH-222
<b>Office Phone</b>	9723381539
<b>Email Address</b>	Saif.alsultan@untdallas.edu
<b>Office Hours</b>	Monday and Wednesday from 9:30 am – 10:00 am, and from 2:30 pm – 4:00 pm. Tuesday from 10:00 am – 2:00 pm on Zoom. <b>Or by appointments</b>
<b>Course Format/Structure</b>	Face-to-Face
<b>Classroom Location</b>	DAL 1 – 201D
<b>Class Meeting Days &amp; Times</b>	MW 11:30 AM – 12:50 PM
<b>Course Catalog Description</b>	Logical and physical database system organization; logical models; design issues; secondary storage considerations.
<b>Prerequisites</b>	CSCE2110
<b>Corequisites</b>	N/A
<b>Required Text</b>	Connolly, T. and Begg, C., <i>Database Systems: A Practical Approach to Design, Implementation, and Management</i> , 6th Edition, Pearson, ISBN 978-0-13-294326-0.
<b>Recommended Texts and References</b>	
<b>Recommended Technology</b>	You will need a computer for this course.
<b>Access to Learning Resources</b>	<b>UNT Dallas Library:</b> Phone: (972) 338-1616; Website URL: <a href="http://www.untdallas.edu/library">http://www.untdallas.edu/library</a> <b>UNT Dallas Bookstore:</b> Phone: (972) 780-3652; Website URL: <a href="http://www.untdallas.edu/bookstore">http://www.untdallas.edu/bookstore</a> Email: <a href="mailto:untdallas@bkstr.com">untdallas@bkstr.com</a>
<b>Canvas Resources</b> <b>Supported Browsers:</b> <ul style="list-style-type: none"> <li>• Chrome 67 &amp; 68</li> <li>• Firefox 60 &amp; 61</li> <li>• Flash 29, 30 (for audio/video)</li> <li>• Respondus Lockdown Browser</li> <li>• Safari 10, 11</li> </ul>	<b>Getting Help with Canvas:</b> <b>Canvas 24/7 Phone Support for Students: 1-833-668-8634</b> <b>Canvas Help Resources:</b>  <b>Canvas Student Guide -</b> <a href="https://community.canvaslms.com/docs/DOC-10701">https://community.canvaslms.com/docs/DOC-10701</a> For additional assistance, contact Student Assistance (UNT Dallas Distance Learning): DAL1, Room 157

<p><b>Supported Devices:</b></p> <ul style="list-style-type: none"> <li>• iPhone</li> <li>• Android</li> <li>• Chromebook</li> </ul> <p><i>Note: Tablet users can use the Canvas app</i></p> <p><b>Screen Readers:</b></p> <ul style="list-style-type: none"> <li>• VoiceOver (Safari)</li> <li>• JAWS (Internet Explorer)</li> <li>• NVDA (Firefox)</li> </ul> <p><i>Note: There is no screen reader support for Canvas in Chrome</i></p>	<p>Phone: 972-338-5580 Email: <a href="mailto:distancelearning@untDallas.edu">distancelearning@untDallas.edu</a></p> <p><b>If you are working with Canvas 24/7 Support to resolve a technical issue, please keep me updated on the troubleshooting progress.</b></p> <p><b>If you have a course-related issue (e.g., course content, assignment trouble, quiz difficulties), please contact me during office hours or by email.</b></p>
<b>Course Goals:</b>	
Provide an understanding of real-world database systems and how they are applied in organizations.	
<b>Student Learning Outcomes:</b> Upon successful completion of this course, the student will be able to:	
<ul style="list-style-type: none"> <li>• Explain the database systems, their advantages to information storage and retrieval.</li> <li>• Analyze data and information to identify the design requirements.</li> <li>• Design conceptual, logical, and physical data models.</li> <li>• Use the SQL language to define and manipulate a relational database.</li> <li>• Work effectively as a member of a database development team to design and implement a relational database.</li> </ul>	

## Course Outline

Priority will be given to understanding the material in depth. This schedule is subject to change by the instructor, any changes to this schedule will be communicated in class and on CANVAS.

Date	Topics	Reference in the Text
8/25	Introduction to Databases	Chapter 1
8/27	Database environment	Chapter 2
<b>9/1</b>	<b>Labor Day – No Class</b>	
9/3	Database environment	Chapter 2
9/8	Database System Development Lifecycle	Chapter 10
9/10	Database System Development Lifecycle	Chapter 10
9/15	Entity-Relationship Modeling	Chapter 12
9/17	Entity-Relationship Modeling	Chapter 12
9/22	Entity-Relationship Modeling	Chapter 12
9/24	The Relational Database model	Chapter 4
9/29	The Relational Database model	Chapter 4
10/1	The Relational Database model	Chapter 4
10/6	The Relational Database model	Chapter 4
<b>10/8</b>	<b>Exam 1</b>	

10/13	Normalization	Chapter 14
10/15	Normalization	Chapter 14
10/20	Normalization	Chapter 14
10/22	Normalization	Chapter 14
10/27	SQL: Data Definition (create table, alter table, and drop table)	Chapter 7
10/29	SQL: Data Definition (create table, alter table, and drop table)	Chapter 7
11/3	SQL: Data Definition (create table, alter table, and drop table)	Chapter 7
11/5	SQL: Data Definition (create table, alter table, and drop table)	Chapter 7
<b>11/10</b>	<b>Review</b>	
<b>11/12</b>	<b>Exam 2</b>	
11/17	SQL: Data Manipulation (insert, delete, update, and select)	Chapter 6
11/19	SQL: Data Manipulation (insert, delete, update, and select)	Chapter 6
11/24	SQL: Data Manipulation (insert, delete, update, and select)	Chapter 6
11/26	SQL: Data Manipulation (insert, delete, update, and select)	Chapter 6
12/1	SQL: Data Manipulation (insert, delete, update, and select)	Chapter 6
<b>12/3</b>	<b>Exam 3</b>	

### Course Evaluation Methods

This course will utilize the following instruments to determine student grades and proficiency of the learning outcomes for the course.

### Grading Matrix

Assessment method	Total Points
Assignments, quizzes and project.	45%
Exam 1	15%
Exam 2	15%
Exam 3	25%
Total:	100%

## **Grade Determination**

The following standard grading scale will be used to determine your final letter grade:

A = 90% or better

B = 80 – 89 %

C = 70 – 79 %

D = 60 – 69 %

F = less than 60%

Need tutoring services or just some help with a particular assignment? For tutoring that empowers students to achieve success, schedule an appointment with the Learning Commons today at <https://www.untdallas.edu/learning/schedule-appointment/>.

## **Course-Specific Policies**

### **Attendance and Participation Policy:**

The University attendance policy is in effect for this course. Please refer to Policy 7.005 Student Attendance at <https://untsystem.policytech.com/dotNet/documents/?docid=1347&public=true>. Class attendance and participation is mandatory because the class is designed as a shared learning. The dynamic and intensive nature of this course makes it impossible for students to make-up or to receive credit for missed classes. Attendance and participation in all class meetings is essential to the integration of course material and your ability to demonstrate proficiency. Students are responsible for notifying the instructor if they are missing the class and for what reason. Students are also responsible for making up any work covered in class. Successfully completing this class is a function of many factors. Two such factors are class attendance and assignment/exams completion.

### **Assignment Policy:**

All assignments must be completed by the stated due dates. Late assignments will not be accepted, except in case of documented emergencies. Unless otherwise specified, all assignments must be completed individually.

### **Exam Policy:**

Exams should be taken as scheduled. No makeup examinations will be allowed except for documented emergencies (See Policy 7.005 Student Attendance at <https://www.untdallas.edu/hr/upol>).

**Email Policy:**

Use your UNTD email account to contact me. You should check your email daily, as you are responsible for all the information I send. I will not discuss grades over the phone and will only respond to emails sent from your UNTD account.

**University Policies and Procedures****Students with Disabilities (ADA Compliance):**

The University of North Texas at Dallas makes reasonable academic accommodations for students with disabilities. Students seeking accommodation must first register with the Disabilities Services Office (DSO) to verify their eligibility. If a disability is verified, the DSO will provide you with an accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request accommodation at any time, however, DSO notices of accommodation should be provided as early as possible in the semester to avoid any delays in implementation. Note that a student must obtain a new letter of accommodation for every semester and must meet/communicate with each faculty member prior to implementation in each class. Students are strongly encouraged to deliver letters of accommodation during faculty office hours or by appointment. Faculty members have the authority to ask students to discuss such letters during their designated office hours to protect the privacy of the student. For additional information see the Disability Services Office website at <http://www.untDallas.edu/disability>. You may also contact them by phone at 972-338-1777; by email at [UNTDisability@untDallas.edu](mailto:UNTDisability@untDallas.edu) on the first floor of the Student Center.

Canvas	Instructure	Accessibility	Statement:
University of North Texas at Dallas is committed to ensuring that online and hybrid courses are usable by all students and faculty including those with disabilities. If you encounter any difficulties with technologies, please contact our ITSS Department. To better assist them, you would want to have the operating system, web browser and information on any assistive technology being used. The Canvas Instructure Accessibility Statement is provided at <a href="https://www.canvaslms.com/accessibility">https://www.canvaslms.com/accessibility</a> .			

**NOTE:** Additional instructional technology tools, such as Turnitin, Respondus, Panopto, and publisher cartridge content (i.e. MyLab, Pearson, etc.) may NOT be fully ADA compliant. Please contact our Disability Office should you require additional assistance utilizing any of these tools.

**Academic Integrity:**

Academic integrity is a hallmark of higher education. You are expected to abide by the University's code of Academic Integrity policy. Any person suspected of academic dishonesty (i.e., cheating or plagiarism) will be handled in accordance with the University's policies and procedures. Refer to the UNT Dallas Academic Integrity Policy in the appropriate Catalog at <http://dallascatalog.unt.edu>.

Academic dishonesty includes, but is not limited to, cheating, plagiarizing, fabrication of information or citations, facilitating acts of dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students.

Web-based Plagiarism Detection: Please be aware in some courses, students may be required to submit written assignments to Turnitin, a web-based plagiarism detection service, or another method. If submitting to Turnitin, please remove your title page and other personal information.

### **Classroom etiquette:**

Students are encouraged to contribute their perspectives and insights to class discussions. However, offensive & inappropriate language (swearing) and remarks offensive to others of particular nationalities, ethnic groups, sexual preferences, religious groups, genders, or other ascribed statuses will not be tolerated. Disruptions which violate the Code of Student's Rights, Responsibilities, and Conduct will be referred to the Dean of Students as the instructor deems appropriate (UNTD Policy 7.001 found at <https://untsystem.policytech.com/dotNet/documents/?docid=1278&public=true>).

### **Classroom Disruption:**

Students are expected to always engage with the instructor and other students in this class in a respectful and civil manner to promote a classroom environment that is conducive to teaching and learning. Students who engage in disruptive behavior will be directed to leave the classroom. A student who is directed to leave class due to disruptive behavior is not permitted to return to class until the student meets with a representative from the Dean of Students Office. It is the student's responsibility to meet with the Dean of Students before class meets again and to provide the instructor confirmation of the meeting. A student who is directed to leave class will be assigned an unexcused absence for that class period and any other classes the student misses because of not meeting with the Dean of Students. The student is responsible for material missed during all absences, and the instructor is not responsible for providing missed material. In addition, the student will be assigned a failing grade for assignments, quizzes or examinations missed and will not be allowed to make up the work.

The Code of Student's Rights, Responsibilities, and Conduct (UNTD Policy 7.001 found at <https://untsystem.policytech.com/dotNet/documents/?docid=1278&public=true>) describes disruption as the obstructing or interfering with university functions or activity, including any behavior that interferes with students, faculty, or staff access to an appropriate educational environment. Examples of disruptive behavior that may result in a student being directed to leave the classroom include but are not limited to: failure to comply with reasonable directive of University officials, action or combination of actions that unreasonably interfere with, hinder, obstruct, or prevents the right of others to freely participate, threatening, assaulting, or causing harm to oneself or to another, uttering any words or performing any acts that cause physical injury, or threaten any individual, or interfere with any individual's rightful actions, and harassment. You are encouraged to read the Code of Student's Rights, Responsibilities, and Conduct for more information related to behaviors that could be considered disruptive.

**Course Evaluations:**

Student evaluations of teaching effectiveness are a requirement for all organized classes at UNT Dallas. This short survey will be made available to you at the end of the semester via your campus email, providing you a chance to comment on how this class is taught. I (as the instructor) will not have access to the results of the evaluations until after final grades have been posted. I am very interested in the feedback I get from students, as I work to continually improve my teaching. I consider students' evaluations to be an important part of your participation in this class.

**Sexual Harassment, Sexual Misconduct, Intimate Partner Violence and Stalking**

UNT Dallas is committed to creating a safe learning environment for all members of our community, free from gender and sex-based discrimination, including sexual harassment, domestic and dating violence, sexual assault, and stalking, in accordance with Title IX, Texas laws and University Policies. Please note that all employees are mandated reporters and must report all instances of sexual misconduct, dating violence, sexual assault, domestic violence and stalking to the Title IX Coordinator. If you or someone you know has experienced any form of sex or gender-based discrimination or violence and wish to speak to the Title IX Coordinator, you can email them at [titleix@untdallas.edu](mailto:titleix@untdallas.edu) or file a report [here](#).

**Pregnancy, Pregnancy Related Conditions and Parenting Modifications Under Title IX**

**UNT Dallas** is committed to compliance with Title IX, and to supporting the academic success of pregnant and parenting students and students with pregnancy related conditions. If you are a pregnant, have pregnant related conditions or a parenting student (child under one-year needs documented medical care) who wishes to request reasonable related modifications from the University under Title IX, please email the Title IX Coordinator at [titleix@untdallas.edu](mailto:titleix@untdallas.edu). The Title IX Coordinator will work with your professors and academic unit to provide reasonable modifications needed to be supportive of your education while pregnant or as a parent under Title IX.

**Bad Weather Policy:**

Campus facilities will close, and operations will be suspended when adverse weather and/or safety hazards exist on the UNTD campus or if travel to the campus is deemed dangerous as the result of ice, sleet or snow. In the event of a campus closure, the Marketing and Communication Department will report closure information to all appropriate major media by 7 a.m. That department will also update the UNTD website, Facebook and Twitter with closing information as soon as it is possible. For more information, please refer to <http://www.untdallas.edu/police/resources/notifications>.

**Inclement Weather and Online Classes:**

Online classes may or may not be affected by campus closures due to inclement weather. Unless otherwise notified by your instructor via e-mail, online messaging, or online announcement, students should assume that assignments are due as scheduled.

**Technology Assistance:** To successfully access the materials in Canvas, UNT Dallas advises that your computer be equipped with the minimum system requirements listed on the first page of the syllabus.

If you have trouble accessing or using components of the course, try using Google Chrome browser. If you still experience technical difficulties, first, notify your instructor.

If the problem is still not resolved, call Distance Learning at the phone number listed on the first page of the syllabus. Also, no matter what browser you use, always enable pop-ups.

For more information see:

- UNT Dallas Canvas Technical Requirements: <https://community.canvaslms.com/docs/DOC-10721>
- Canvas Instructure Support & Unsupported Operating Systems: <https://community.canvaslms.com/docs/DOC-10720>