

University of North Texas at Dallas

Fall 2024

Syllabus

CSCE4350: Introduction to Database Systems Design (3 hrs)	
School	Business
Program	Information Technology
Instructor name	Dr. Saif Al-Sultan
Office Location	FH-222
Office Phone	9723381539
Email Address	Saif.alsultan@untdallas.edu
Office Hours	Monday and Wednesday from 2:30 pm – 3:30 pm. Tuesday from 10:00 am – 12:00 pm Thursday from 10:00 am – 2:00 pm on Zoom. Or by appointments
Course Format/Structure	Face-to-Face
Classroom Location	DAL 1 – 201D
Class Meeting Days & Times	MW 11:30 AM – 12:50 PM
Course Catalog Description	Logical and physical database system organization; logical models; design issues; secondary storage considerations.
Prerequisites	CSCE2110
Corequisites	N/A
Required Text	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.
Recommended Texts and References	
Access to Learning Resources	UNT Dallas Library: Phone: (972) 338-1616; Website URL: http://www.untdallas.edu/library UNT Dallas Bookstore: Phone: (972) 780-3652; Website URL: http://www.untdallas.edu/bookstore Email: untdallas@bkstr.com
Canvas Resources Supported Browsers: <ul style="list-style-type: none"> • Chrome 67 & 68 • Firefox 60 & 61 • Flash 29, 30 (for audio/video) • Respondus Lockdown Browser • Safari 10, 11 	Getting Help with Canvas: Canvas 24/7 Phone Support for Students: 1-833-668-8634 Canvas Help Resources: Canvas Student Guide - https://community.canvaslms.com/docs/DOC-10701 For additional assistance, contact Student Assistance (UNT Dallas Distance Learning): DAL1, Room 157 Phone: 972-338-5580

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

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.

Date	Topics	Reference in the Text
8/26	Introduction to Databases	Chapter 1
8/28	Database environment	Chapter 2
9/4	Database environment	Chapter 2
9/9	Database System Development Lifecycle	Chapter 10
9/11	Database System Development Lifecycle	Chapter 10
9/16	Entity-Relationship Modeling	Chapter 12
9/18	Entity-Relationship Modeling	Chapter 12
9/23	Entity-Relationship Modeling	Chapter 12
9/25	The Relational Database model	Chapter 4
9/30	The Relational Database model	Chapter 4
10/2	The Relational Database model	Chapter 4
10/7	The Relational Database model	Chapter 4
10/9	Exam 1	
10/14	Normalization	Chapter 14
10/16	Normalization	Chapter 14
10/21	Normalization	Chapter 14
10/23	Normalization	Chapter 14
10/28	SQL: Data Definition (create table, alter table, and drop table)	Chapter 7
10/30	SQL: Data Definition (create table, alter table, and drop table)	Chapter 7
11/4	SQL: Data Definition (create table, alter table, and drop table)	Chapter 7
11/6	SQL: Data Definition (create table, alter table, and drop table)	Chapter 7
11/11	Review	
11/13	Exam 2	
11/18	SQL: Data Manipulation (insert, delete, update, and select)	Chapter 6
11/20	SQL: Data Manipulation (insert, delete, update, and select)	Chapter 6
11/25	SQL: Data Manipulation (insert, delete, update, and select)	Chapter 6
11/27	SQL: Data Manipulation (insert, delete, update, and select)	Chapter 6
12/2	SQL: Data Manipulation (insert, delete, update, and select)	Chapter 6
12/4	Exam 3	

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%

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://www.untDallas.edu/hr/upol>. 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 to notify the instructor if they are missing class and for what reason. Students are also responsible to make up any work covered in class. It is recommended that each student coordinate with a student colleague to obtain a copy of the class notes, if they are absent. Successfully completing this class is a function of many factors. Two such factors are class attendance and assignment/exams completion.

Assignment Policy:

All assignments are due in class on the due dates stated on the assignments. No late assignments will be accepted, except for documented emergencies. All assignments are to be done individually unless stated otherwise on the assignment.

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 CANVAS email account to contact me. You should check your email every day as you are responsible for all information I send out. Due to privacy rights, I will not discuss grades over the phone and I will only answer emails from your CANVAS account.

Cell Phones:

Cell Phone use (ringing, texting, reading, etc.) in class is strictly prohibited.

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 accommodations 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 accommodations 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 letter 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 UNTDdisability@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 <https://www.canvaslms.com/accessibility>.

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.

Diversity/Tolerance Policy:

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://www.untDallas.edu/hr/upol>).

Classroom Disruption:

Students are expected to engage with the instructor and other students in this class in a respectful and civil manner at all times 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 absent for that class period and any other classes the student misses as a result 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://www.untDallas.edu/hr/upol>**) 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 Evaluation:

Student's evaluations of teaching effectiveness is 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 will not have access to the results of the evaluations until after final grades have 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.

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>.

Technology Assistance:

In order 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 experience difficulty 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>

