

University of North Texas at Dallas

Spring 2025

Syllabus for Distance Learning

CSCE 4360: Database Administration (3hrs)	
School	Business
Program	Information Technology
Instructor name	Dr. Saif Al-Sultan
Office Location	FH-222
Office Phone	(972) 338-1539
Email Address	saif.alsultan@untdallas.edu
Office Hours	Monday and Wednesday from 1:00 PM – 3:00 PM. Tuesday from 12:00 PM – 4:00 PM (on Teams) Or by appointments
Course Format/Structure	Online
Classroom Location	Online
Class Meeting Days & Times	Online
Course Catalog Description	Topics include the installation, configuration, planning, tuning, and monitoring of a database server. Other tasks deal with the management of users, access rights and security, management of views, tables and indexes, backup, restoration and recovery, performance monitoring.
Prerequisites	CSCE4350
Corequisites	N/A
Required Text	No text is required.
Recommended Texts and References	Microsoft SQL Server 2016: A Beginner's Guide, 6th Edition, by Dusan Petkovic, ISBN-13: 978-1259641794, McGraw-Hill Education; 2016
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 Distance Learning:

<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"> • Voice Over (Safari) • JAWS (Internet Explorer) • NVDA (Firefox) <p><i>Note: There is no screen reader support for Canvas in Chrome</i></p>	<p>DAL1, Ste 150 Phone: 972-338-5580 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 by Canvas messaging or email (only if you don't have access to Canvas messaging).</p>
<p>Course Goals:</p>	
<p>This course covers the most crucial aspects of database administration, and the tasks carried out by a database administrator. These include the installation, configuration, planning, tuning, and monitoring of a database server. Other tasks deal with the management of users, access rights and security, management of views, tables and indexes, backup, restoration and recovery, performance monitoring. The goal of this course is to enable students to gain hands-on skills related to the administration of MS SQL database server.</p>	
<p>Student Learning Outcomes: Upon successful completion of this course, the student will be able to:</p>	
<p>LO 1: Understand the principles of the relational data model, concurrency control, system catalog, views, indices, query optimizer, and the environment of the database engine.</p> <p>LO 2: Perform the steps involved in MS SQL Server installation and setup.</p> <p>LO 3: Use MS SQL server to perform the following tasks: create relational databases, create views, access system catalog, create indices, and manage concurrent transactions effectively.</p> <p>LO 4: Design a backup and recovery strategy to ensure system availability.</p>	

Online/Hybrid Course Outline

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated via class email or Canvas announcement. Additional readings and activities may be added, these will be noted in the Readings and Activities/Assignments sections.

Weeks	Topics	Reference in the Text	Activities	Due Dates
Week 1 (Jan 13)	<ul style="list-style-type: none">The Relational Model	Chapter 1	<ul style="list-style-type: none">Read PowerPoint Slides in the module (Chapter 1).Complete Quiz 1	<ul style="list-style-type: none">Quiz 1 Deadline: 01/19/25
Week 2 (Jan 20)	<ul style="list-style-type: none">MS SQL Server Installation and Setup	Chapter 2	<ul style="list-style-type: none">Read the instructions in the module (chapter 2).	
Week 3 (Jan 27)	<ul style="list-style-type: none">SQL Server Management Studio Installation.	Chapter 3	<ul style="list-style-type: none">Read the instructions in the module (chapter 3).Complete Assignment 1.	<ul style="list-style-type: none">Assignment 1 Deadline: 02/02/25
Week 4 (Feb 3)	<ul style="list-style-type: none">System Catalog	Chapter 9	<ul style="list-style-type: none">Read PowerPoint Slides in the module (chapter 9).Complete Quiz 2	<ul style="list-style-type: none">Quiz 2 Deadline: 02/09/25
Week 5 (Feb 10)	<ul style="list-style-type: none">Indices	Chapter 10	<ul style="list-style-type: none">Read PowerPoint Slides in the module (chapter 10).Complete Quiz 3	<ul style="list-style-type: none">Quiz 3 Deadline: 02/16/25
Week 6 (Feb 17)	<ul style="list-style-type: none">Views	Chapter 11	<ul style="list-style-type: none">Read PowerPoint Slides in the module (chapter 11).Complete Quiz 4	<ul style="list-style-type: none">Quiz 4 Deadline: 02/23/25
Week 7 (Feb 24)	<ul style="list-style-type: none">Exam 1	Chapters 9, 10, and 11	<ul style="list-style-type: none">Complete Exam 1	<ul style="list-style-type: none">Exam 1 Deadline: 03/02/25

Week 8 (Mar 3)	<ul style="list-style-type: none"> • Concurrency Control 	Chapter 13	<ul style="list-style-type: none"> • Read PowerPoint Slides in the module (chapter 13). • Complete Quiz 5. 	<ul style="list-style-type: none"> • Quiz 5 <p>Deadline: 03/09/25</p>
Week 9 (Mar 10)	Spring Break			
Week 10 (Mar 17)	<ul style="list-style-type: none"> • System Environment of the DB Engine 	Chapter 15	<ul style="list-style-type: none"> • Read PowerPoint Slides in the module (chapter 15). • Complete Quiz 6. 	<ul style="list-style-type: none"> • Quiz 6 <p>Deadline: 03/23/25</p>
Week 11 (Mar 24)	<ul style="list-style-type: none"> • Backup, Recovery and System Availability 	Chapter 16	<ul style="list-style-type: none"> • Read PowerPoint Slides in the module (chapter 16). • Complete Assignment 2. 	<ul style="list-style-type: none"> • Assignment 2 <p>Deadline: 03/30/25</p>
Week 12 (Mar 31)	<ul style="list-style-type: none"> • Exam 2 	Chapters 13, 15, and 16.	<ul style="list-style-type: none"> • Complete Exam 2 	<ul style="list-style-type: none"> • Exam 2 <p>Deadline: 04/06/25</p>
Week 13 (Apr 7)	<ul style="list-style-type: none"> • Automating System Administration Tasks 	Chapter 17	<ul style="list-style-type: none"> • Read PowerPoint Slides in the module (chapter 17). • Complete Quiz 7 	<ul style="list-style-type: none"> • Quiz 7 <p>Deadline: 04/13/25</p>
Week 14 (Apr 14)	<ul style="list-style-type: none"> • Query Optimizer 	Chapter 19	<ul style="list-style-type: none"> • Read PowerPoint Slides in the module (chapter 19). • Complete Quiz 8 	<ul style="list-style-type: none"> • Quiz 8 <p>Deadline: 04/20/25</p>
Week 15 (Apr 21)	<ul style="list-style-type: none"> • Performance Tuning 	Chapter 20	<ul style="list-style-type: none"> • Read PowerPoint Slides in the module (chapter 20). 	
Week 16 (Apr 28)	<ul style="list-style-type: none"> • Exam 3 	Chapters 17, 19, and 20.	<ul style="list-style-type: none"> • Complete Exam 3 	<ul style="list-style-type: none"> • Exam 3 <p>Deadline: 05/04/25</p>

Course Evaluation Methods

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

- Quizzes
- Assignments
- Exams

Grading Matrix

Assessment method	Points	Total
Quizzes	40%	40%
Assignments	10%	10%
Exam 1	15%	15%
Exam 2	15%	15%
Exam 3	20%	20%
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%

University Policies and Procedures

Students with Disabilities (ADA Compliance):

Chapter 7 (7.004) Disability Accommodations for Students:

The University of North Texas at Dallas makes reasonable academic accommodation for students with disabilities. Students seeking accommodations must first register with the Disability 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 delay in implementation. Note that students 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](#). You may also contact them by phone at 972-338-1777; by email at UNTDDisability@untDallas.edu or in the Student Center Building, 1st floor.

Canvas Instructure Accessibility Statement:

University of North Texas at Dallas is committed to ensuring its 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. [Canvas Instructure Course Management System's Accessibility Statement](#) is also provided.

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.

Course Evaluation Policy:

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, providing you a chance to comment on how this class is taught. 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.

Assignment Policy: (According to the instructor's discretion while working in concert with the division/program's guidelines).

Exam Policy: Online exams will take place on the dates mentioned in week 4 and week 8. The Lockdown browser and Respondus Monitor will be used to proctor the exams.

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 in the [Student Code of Academic Integrity](#) Code 7.002 for complete provisions of this code.

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 online or hybrid 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 Policies

Online Attendance and Participation:

The University attendance policy is in effect for this course. Class attendance in the Canvas classroom and participation is expected because the class is designed as a shared learning experience, and because essential information not in the textbook will be discussed in the discussion board. Online presence and participation in all class discussions is essential to the integration of course material and your ability to demonstrate proficiency.

Attendance for this online or hybrid course is considered when you are logged in and active in Canvas, i.e., posting assignments, taking quizzes, or completing Discussion Boards. To maintain financial aid award eligibility, activity must occur before the census date of the session or term of the course. Refer to [Registrar's Office](#) for specific dates. If you are absent/not active in the course shell, it is YOUR responsibility to let the instructor know immediately, upon your return, the reason for your absence if it is to be excused. All instructors must follow university policy 7.005 covering excused absences; however, it is the instructor's discretion, as outlined in the course syllabus, of how unexcused absences may or may not count against successful completion of the course.

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.

Online "Netiquette":

In any social interaction, certain rules of etiquette are expected and contribute to more enjoyable and productive communication. Emails, discussion board forum threads and/or any other forms of written

communication in the online environment should use proper “netiquette” (i.e., no writing in all caps (usually denotes yelling), no curse words, and no “flaming” messages (angry, personal attacks)).

Racial, ethnic, or gender slurs will not be tolerated, nor will pornography of any kind.

Any violation of online netiquette may result in a loss of points or removal from the course and referral to the Dean of Students, including warnings and other sanctions in accordance with the University’s policies and procedures. Refer to the [Student Code of Student Rights Responsibilities and Conduct](#) Code 7.001. Respect is a given principle in all online communication. Therefore, please be sure to proofread all of your written communication prior to submission.

Diversity/Tolerance Policy:

Students are encouraged to contribute their perspectives and insights to class discussions in the online environment. 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 Conduct will be referred to the Dean of Students as the instructor deems appropriate.

Technology Assistance: In order to successfully access the materials in an online or hybrid course, UNTDallas 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 Canvas 24/7 Help Desk 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 [Canvas Student Guide](#).