

University of North Texas at Dallas
Fall 2015
SYLLABUS

CSCE 4350: Introduction to Database Systems Design		3Hrs
Department of	Mathematics and Information Sciences	Division of Liberal Arts and Life Sciences
Instructor Name:	Sam Nakib	
Office Location:	Online	
Office Phone:	(972) 200 - 4727	
Email Address:	oussama.nakib@unt.edu	
Office Hours:	Monday – Tuesday – Wednesday 5:00 PM – 7:00 PM	
Virtual Office Hours:	N/A	
Classroom Location:	Online	
Class Meeting Days & Times:	Online	
Course Catalog Description:	Logical and physical database system organization; logical models; design issues; secondary storage considerations.	
Prerequisites:	CSCE 2110	
Co-requisites:		
Required Text:	Connolly, T. and Begg, C., Database Systems: A Practical Approach to Design, Implementation, and Management, 6th Edition, Addison Wesley, ISBN 978-0-13-294326-0.	
Recommended Text and References:		
Access to Learning Resources:	UNT Dallas Library: phone: (972) 780-3625; web: www.untDallas.edu/library UNT Dallas Bookstore: phone: (972) 780-3652; e-mail: 1012mgr@fheg.follett.com	
Course Goals or Overview:	This course is designed to provide an understanding of real-world database systems and how they are applied in organizations. To push through learn-by-doing, a series of laboratories will be conducted under the integrated development environment of Microsoft Access.	
Course Learning Objectives/Outcomes:	At the end of this course, the student will	
1	Analyze a problem and determine its data requirements.	
2	Create a database that satisfies those requirements.	
3	Store, maintain, and access data in a database using SQL.	
4	Use Functional Dependency Theory to design and normalize a database.	
5	Use the Uniform Modeling Language and the Entity Relationship Model to specify the design of a database.	
Degree Program Student Learning Outcomes:		
1	Core Knowledge: Students will have the ability to apply knowledge of computing, networking and data management.	
2	Resource Management Skills: Students will apply project management principles to analyze problems and define appropriate computing and infrastructure resources.	
3	Social Responsibility: Students will develop an understanding of professional, ethical, legal, security and social responsibilities of information technology professionals.	

4	Written Communication: Students will prepare a written report describing a process, experiment or design activity in the discipline.
5	Oral Communication: Students will orally describe and defend a design, process or problem solution to a body of peers.

Course Outline

The following progressive table is tentatively scheduled and subject to change by the instructor. Changes to this schedule will be communicated by in-class as well as eCampus announcements.

Topics		Timeline
Ch 1	Self-Introduction DB Class Requirements Introduction to Database	Week of 8/24/2015
Ch 12	Entity-Relationship Modeling	Week of 8/31/2015
Ch 12	Entity-Relationship Modeling (cont'd.)	Week of 9/7/2015
Ch 14	Normalization	
Ch 14	Normalization (cont'd.)	Week of 9/14/2015
	Test 1	Week of 9/21/2015
Lab 1	Creating Tables	Week of 9/28/2015
Lab 2	Generating an overall reports	
Lab 3	Creating a switchboard for menu-driven operations	Week of 10/5/2015
Lab 4	Generating a grouped report	
Ch 15	Advanced Normalization (BCNF only)	Week of 10/12/2015
Ch 5	Relational Algebra and Relational Calculus	
Ch 5	Relational Algebra and Relational Calculus (cont'd.)	Week of 10/19/2015
	Test 2	Week of 10/26/2015
Lab 5	Searching Database with Partial Terms	Week of 11/2/2015
Ch 6	SQL: Data Manipulation	Week of 11/09/2015
Ch 6	SQL: Data Manipulation (cont'd.)	Week of 11/16/2015
Ch 6	SQL: Data Manipulation (cont'd.)	Week of 11/23/2015
	Test 3	Week of 11/30/2015

Course Evaluation Methods

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

Exams – written tests designed to measure knowledge of presented course material

Assignments – written assignments designed to supplement and reinforce course material

Project – a database design project designed to measure ability to apply presented course material

Class Participation – attendance and participation in class discussions

Grading Matrix:

Instrument	Value (points or percentages)	Total
Test 1	100	100
Test 2	100	100
Test 3	100	100
Assignments	3 assignments at 20 points each	60
Project	30	30
Class Participation/ Discussion	10	10
Total:		400

Grade Determination:

A = 360 – 400 pts; i.e. 90% or better

B = 320 – 359 pts; i.e. 80 – 89 %

C = 280 – 319 pts; i.e. 70 – 79 %

D = 240 – 279 pts; i.e. 60 – 69 %

F = 239 pts or below; i.e. less than 60%

University Policies and Procedures

Students with Disabilities (ADA Compliance):

The University of North Texas Dallas faculty is committed to complying with the Americans with Disabilities Act (ADA). Students with documented disabilities are responsible for informing faculty of their needs for reasonable accommodations and providing written authorized documentation. Grades assigned before an accommodation is provided will not be changed as accommodations are not retroactive. For more information, you may visit the Student Life Office, Suite 200, Building 2 or call Rosemary Meredith at 972-338-1777.

Student Evaluation of Teaching Effectiveness Policy:

The Student Evaluation of Teaching Effectiveness (SETE) is a requirement for all organized classes at UNT. 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 the SETE to be an important part of your participation in this class.

Assignment Policy:

As the class goes on, the aforementioned assignments will be posted. Copying assignments may result in failing the class for all students involved. Late submissions will be penalized -20% per school day up to two consecutive school days. No late submission is allowed after two school days.

Exam Policy:

Exams should be taken as scheduled. No makeup examinations will be allowed except for documented emergencies (See Student Handbook).

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 Student Code of Academic Integrity at http://www.unt.edu/untDallas/policies/Chapter%2007%20Student%20Affairs,%20Education,%20and%20Funding/7.002%20Code%20of%20Academic_Integrity.pdf for complete provisions of this code. In addition, all academic work submitted for this class, including exams, papers, and written assignments should include the following statement:

On my honor, I have not given, nor received, nor witnessed any unauthorized assistance that violates the UNTD Academic Integrity Policy.