

COSC3385 Database Design, Spring 2020

Tu/Th 2:00 PM - 3:20 PM @ COB 211

Dr. Lidong Wu | 469-443-8682 | Email: lwu@uttyler.edu

Office: COB 315.12 | Office Hours: 12:30 PM-2:00 PM Tu/Th or by appointment

General Course Information

Required Texts & Materials	Fundamentals of Database Systems, by Ramez Elmasri and Shamkant B. Navath 2016 (7th edition). ISBN-13: 978-0133970777. ISBN-10: 0133970779				
Pre-requisites	COSC 1337				
Course Description	This course covers database management system with an emphasis on relational database concepts, data modeling, database design, development and implements Students will design and construct a system using database software to implement logical design. Topics include: introduction of relational database model, database system architecture, database design and modeling, database query using SQL, a an introduction to database administration, database warehouse and cloud services.				
Tentative Course Schedule	Week	Dates	Lecture Topics	Chapter	
	/	1/14-16	1. Overview of Databases and Basic Concepts	1-2	
	2	1/21-23	2. Systems Analysis and Database Modeling	2	
	3	1/28-30	3. Entity-Relationship (E-R) Model 4. Advanced E-R Model	3-4	
	4	2/4-6	5. ER/EER to Relational Model	9	
	5	2/11-13	6. Relational Data Model and Normalization	5, 14	
	6	2/18-20	7. Physical Database Design and SQL;	6, 7	
	7	2/25-27	Exam I Review; Midterm Exam (2/7/2020)		
	8	3/3-5	8. SQL, cont'd	6, 7	
	9	3/10-12	Spring Break		
	10	3/17-19	9. SQL, cont'd	6, 7	
	//	3/24-26	10. Database System Architectures	23	
	12	3/31-4/2	11. Transaction, Concurrent Control Techniques	20-22	
	/3	4/7-9	12. NOSQL, Big Data	24-25	
	14	4/14-16	Project Work Day		
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	15	4/21-23	Project Demo; Exam II Review		

Grading Policy

Weighting Scheme	Midterm Exam - 20%,	90-100%	A		
	Final Exam - 20%,	80-89.99%	B		
	Project - 40%,	70-79.99%	C		
	Homeworks and Quiz - 20%.	Below 70%	F		
Rules	There are two (2) necessary conditions for passing this class: 1) Submission of all Assignments and Projects , 2) Attendance - your final grade will be reduced 10% for every three classes that you miss. Students are responsible for all material covered in lectures, as well as that specifically mentioned as part of the reading assignments. Examinations will heavily emphasize conceptual understanding of the material. No make-up pop quizzes will be given.				

Cell Phones

Turn off your cell phones or to vibrate mode. You have to turn them off in exams or quizzes.

Group Project

You have to turn them in on time. Points will be deducted for late assignments. A penalty of 30% will be deducted from your score for the first 24-hour period your assignment is late. A penalty of 70% will be deducted from your score for >= 24-hour period. No credit for >= 3 days. Weekend days will be counted. Following is (roughly) the weight distribution for laboratory problems: Correctness - 60%, Test Results Summary - 10%, Code readability including comments - 15%, Approach and Report - 15%. You will be graded on the following: (1) your successful completion of this task; and (2) a peer evaluation of your performance by your fellow group members. Students that receive a score of zero on participation from all group members will not receive credit for the group project. Group Member Peer Evaluations must be submitted at the same time as your group project. Late evaluations will not be accepted and will result in 0 points.

Academic Dishonesty

You are expected to do your own work. You may assist each other with general concepts, but direct assistance with a particular assignment or any attempts to gain an unfair academic advantage will not be tolerated. Cheating is considered a serious academic offense both by the instructor and by the University. It may result in a failing grade from this course for all parties involved.

UT Tyler Honor Code – Every member of the UT Tyler community joins together to embrace: Honor and integrity that will not allow me to lie, cheat, or steal, nor to accept the actions of those who do.

Grade Replacement/Forgiveness

If you are repeating this course for a grade replacement, you must file an intent to receive grade forgiveness with the registrar by the 12th day of class. Failure to do so will result in both the original and repeated grade being used to calculate your overall grade point average. Undergraduates will receive grade forgiveness (grade replacement) for only three course repeats; graduates, for two course repeats during his/her career at UT Tyler.

State-Mandated Course Drop Policy

Texas law prohibits a student who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. This includes courses dropped at another 2-year or 4-year Texas public college or university. For purposes of this rule, a dropped course is any course that is dropped after the 12th day of class (See Schedule of Classes for the specific date). Exceptions to the 6-drop rule may be found in the catalog. Petitions for exemptions must be submitted to the Registrar's Office and must be accompanied by documentation of the extenuating circumstances. Please contact the Registrar's Office if you have any questions.

Disability Services

If you have a disability, including a learning disability, for which you request disability support services/accommodations, please contact Ida MacDonald in the Disability Services office in UC.3150, or call (903) 566-7079. More information may be obtained at http://www.uttyler.edu/disabilityservices.

Student Absence due to Religious Observance

Students who anticipate being absent from class due to a religious observance are requested to inform the instructor of such absences by the second class meeting of the semester.

Student Absence for University-Sponsored Events and Activities

If you intend to be absent for a university-sponsored event or activity, you (or the event sponsor) must notify the instructor at least two weeks prior to the date of the planned absence. At that time, the instructor will set a date and time when make-up assignments will be completed.

Social Security and FERPA Statement

It is the policy of The University of Texas at Tyler to protect the confidential nature of social security numbers. The University has changed its computer programming so that all students have an identification number. The electronic transmission of grades (e.g., via e-mail) risks violation of the Family Educational Rights and Privacy Act; grades will not be transmitted electronically.

UT Tyler a Tobacco-Free University

All forms of tobacco will not be permitted on the UT Tyler main campus, branch campuses, and any property owned by UT Tyler. This applies to all members of the University community, including students, faculty, staff, University affiliates, contractors, and visitors. Forms of tobacco not permitted include cigarettes, cigars, pipes, water pipes (hookah), bidis, kreteks, electronic cigarettes, smokeless tobacco, snuff, chewing tobacco, and all other tobacco products. There are several cessation programs available to students looking to quit smoking, including counseling, quitlines, and group support. For more information on cessation programs please visit www.uttyler.edu/tobacco-free.

Emergency Exits and Evacuation

Everyone is required to exit the building when a fire alarm goes off. Follow your instructor's directions regarding the appropriate exit. If you require assistance during an evacuation, inform your instructor in the first week of class. Do NOT re-enter the building unless given permission by University Police, Fire department, or Fire Prevention Services.

Helpful Comments

This class is very interesting and useful. However, a lot of material will be covered and many new concepts will be introduced. To get full benefit out of the class you have to work regularly. Read the textbook regularly and start working on the assignments soon after they are handed out. Plan to spend at least 10 hours a week on this class doing assignments or reading.