CSC 4710/6710 - Database Systems Fall 2017

Time & Dlage	Monday/Wadnasday, 1,00 nm 2,45 nm			
Time & Place	Monday/Wednesday: 1:00 pm - 2:45 pm			
Total	Aderhold Learning Center 2			
Instructor	Zaobo He			
	Email: <u>zhe4@student.gsu.edu</u>			
	Office: 25 Park Place Building, Room 725			
TD 4	Office Hours: Monday/Wednesday, 12:00 pm - 1:00 pm			
TA	Lloyd Cloer			
	Email: asimpleenigma@gmail.com			
	Office: 25 Park Place Building, 640			
	Office Hours: Tuesday 1:00 pm – 3:00 pm			
Textbook	Fundamentals of Database Systems (7 th edition), Elmasri & Navathe,			
	Addison-Wesley			
Pre-requisites	CSc 3410, Data Structures, with grade of C or higher			
	This course is intended to provide a general introduction to the field			
	of database systems.			
	• The course will cover the fundamental concepts and principles, data			
	models, query languages, database design, concurrency control and			
	some advanced topics.			
Objectives	• Students will understand the basic theoretical knowledge of database			
	systems, be familiar with oracle database and SQL, gain experience			
	of designing and developing database systems and database related			
	applications.			
	Graduate students will also develop abilities of conducting research			
	in database area.			
	Attendance Policy: Students are required to attend all classes.			
	Attendance will be taken randomly			
	Academic Honesty: Plagiarism will result in a score of zero on any			
	test, assignment or paper.			
	Assignment Submission Policy:			
	• Assignment must be turned in (hard-copy) at the starting of the class			
Policies	by the due date; otherwise, your submission will be considered late.			
	Late assignments will be accepted, but will be penalized: 10%			
	penalty if submitted by the start of the first class after the due date.			
	No homework will be accepted after that class.			
	• It is the student's responsibility to check any given grade and make			
	complaints within at most one week after the grades are announced.			
	Grades will not be changed afterwards. Make-ups must need the			
	instructor's special permission. In most cases, they are not allowed.			
Last Date for	Tuesday, October 10, 2017			
Withdrawal				
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Grading Policy: The course will include 3 in-class exams, 3 take-home assignments, and 1 project. The grade allocation is given below:

CSC 4710	Exams 50%	Assignments 30%	Project 20%
CSC 6710	Exams 50%	Assignments 30%	Project 20%

The final letter grade will be determined based on the following criteria (It may be adjusted at the discretion of the instructors):

A	90-100
В	80-89
С	70-79
D	60-69
F	59 and below

Tentative Class Schedule:

This syllabus represents a general plan for the course and deviations from this plan may be necessary during the duration of the course.

Week	Date	TOPIC	Note
1	8/21/2017	• Syllabus	
		• Chapter 1: Database and Database	
		Users	
	8/23/2017	• Chapter 2: Database System	
		Concepts and Architecture	
2	8/28/2017	Chapter 3: ER Model	
	8/30/2017	Chapter 4: Enhanced ER Model	
3	9/04/2017	• No class (Labor Day)	
	9/06/2017	Chapter 5: The Relational Data	Assignment 1 (see iCollege)
		Model and Constraints	
4	9/11/2017	Chapter 9: Relational Database	
		Design by ER- and EER- Relational	
		Mapping	
	9/13/2017	• Chapter 8: Relational Algebra and	
		Calculus	
5	9/18/2017	• Chapter 8: Relational Algebra and	
		Calculus (cont.)	
	9/20/2017	Chapter 6: Basic SQL	
5	9/25/2017	• Chapter 7: More SQL	
	9/27/2017	• Chapter 7: More SQL (cont.)	
6	10/02/2017	• Review for Exam 1	Assignment 1 Due
	10/04/2017	• Exam 1 (open book/notes)	
7	10/09/2017	• Chapter 14: Functional Dependencies	
		and Normalization	

	10/11/2017	• Chapter 14: Functional Dependencies	Assignment 2 (see iCollege)
	10/11/2017	and Normalization (cont.)	
8	10/16/2017	Chapter 16: Storage	
	10/18/2017	• Chapter 16: Storage (cont.)	
9	10/23/2017	• Chapter 17: Indexing	
	10/25/2017	• Chapter 17: Indexing (cont.)	
10	10/30/2017	• Review for Exam 2	Assignment 2 Due
	11/01/2017	• Exam 2 (open book/notes)	
11	11/06/2017	• Chapter 20: Transaction Management	
	11/08/2017	Chapter 21: Concurrency Control	
12	11/13/2017	Chapter 21: Concurrency Control (cont.)	Assignment 3 (see iCollege)
	11/15/2017	• Chapter 19: Query Optimization	
13	11/20/2017	Thanksgiving Break	
	11/22/2017	Thanksgiving Break	
14	11/27/2017	Chapter 19: Query Optimization (cont.)	
	11/29/2017	Final exam review	Assignment 3 Due
15	12/04/2017	No class, final exam and project preparation time	
	12/06/2017	• Final Exam (open book/notes)	Final exam time: 1:00 pm- 2:45 pm
			Project due: email your script and results to zhe4@student.gsu.edu (Email subject: DS_Project_yourLastName)