

Syllabus

INLS 523_001 Database Systems I (3 credits), Spring 2018

Instructor: Adam M Lee (Adam_Lee@med.unc.edu)

Class Schedule: Mondays 6 to 8:45 PM; Manning 117

Office Hours: By appointment;

Textbook: Fundamentals of Database Systems, Sixth Edition, Elmasri, R. & Navathe, S.

Course Description

This course will introduce the basic concepts and applications of relational database management systems, including semantic modeling and relational database theory. The classroom teaching will focus on the following five areas.

- Database concepts
- Entity-relationship models
- Relational concepts and mapping
- SQL
- Functional dependencies and Normalization

Course Requirement

Assignment	% of total grade
Attendance	10%
Class participation	10%
Homework assignments	40%
Midterm exam	20%
Group project & presentation	20%

Grading

Undergraduate Students		Graduate Students	
Grade	Range	Grade	Range
A	90-100	H	95-100
B	80-89	P	80-94
C	70-79	L	70-79
D	60-69	F	69 or below
F	59 or below		

Absence

This is a once-a-week class and a lot of materials are packed into each session. If you miss a session, you will miss a lot. If you have more than 2 absences (or any unexcused absences), your attendance and participation grade will decrease by 25% for every subsequent absence.

Due Dates and Late Work

The homework assignments are due on Mondays before 6:00 PM. A late penalty of 10% per day will be applied unless prior arrangements have been made with the instructor. Students are highly encouraged to submit their homework even if it is late.

Sakai

We will use Sakai for Course Materials and Homework Assignments, and the Group Project Deliverable. It is the responsibility of each student to make sure they have access to Sakai and can submit assignments when they are due. If for some reason you are unable to submit an assignment to Sakai, you may email it to me along with a note about the problem you encountered. Then, as soon as you are able to, it is your responsibility to submit the exact same assignment to Sakai.

Schedule

Class Date	Topics	Assignment	Due Date
January 15 th	No Class - Martin Luther King, Jr. Day		
January 22 nd	Introduction & Database Concept	H1	
January 29 th	Modeling and ER	H2	H1
February 5 th	ER exercises and Enhanced ER	H3	H2
February 12 th	Relational Concepts	H4	H3
February 19 th	Relational Mapping	H5	H4
February 26 th	SQL		H5
March 5 th	Midterm Exam		
March 12 th	No Class - Spring Break		
March 19 th	SQL	H6	
March 26 th	SQL	H7	H6
April 2 nd	Relational Algebra	H8	H7
April 9 th	Functional Dependencies		H8
April 16 th	Normal Forms and Normalization		
April 23 rd	Group Project Presentation		
April 30, May 1,3,4,7,8 (M, T, Th F, M, T)	Exam Days (Exactly Exam Date TBD)		