


INLS523.002.FA20 >  Syllabus

Syllabus

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INLS 523_002

(Mon Aug 10, 2020 12:00 AM - Wed Nov 18, 2020 11:55 PM)

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

Class Schedule: Weekly Monday 06:40 p.m. - 9:25 p.m.

Class Duration: August 10th, 2020 to November 17th, 2020

Office Hours: By appointment; Virtual (Zoom or WebEx),

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

Required Materials: Laptop or PC (Windows or macOS)

- CPU: Intel Core or Xeon 3GHz (or Dual Core 2GHz) or equal AMD CPU.
- Cores: Single (Dual/Quad Core is recommended)
- RAM: 4 GB (6 GB recommended)

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 / Participation	10%
Homework assignments	50%
Discussions	10%
Mid-term exam	15%

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

Not Taken

Due Dates and Late Work

The homework assignments are due on Sundays by 11:59 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 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

Week	Date	Topics	Assignment
		Introduction & Database Concepts	H1
1	8/10/2020	Modeling and Entity Relations	H2
		Getting Connected - Installing MySQL	H3
2	8/17/2020	SQL - Introduction and DQL	H4

3	8/24/2020	Class Canceled	
4	8/31/2020	Relational Concepts & Mapping	H5
5	9/7/2020	Labor Day - No Class	
6	9/14/2020	Advanced SQL - DDL	H6
7	9/21/2020	Normalization	H7
8	9/28/2020	Midterm Exam	
9	10/5/2020	Relational Algebra	H8
10	10/12/2020	Advanced SQL - Controls	H9
11	10/19/2020	Triggers & Stored Procedures	H10
12	10/26/2020	Coding for Databases	H11
13	11/2/2020	Applications of Databases	H12
14	11/9/2020	Security and Ethics	H13
15	11/16/2020	Final Exam	

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