Important!
Please read until the end

Both Section 1 and Section 2 can join the live lecture. This live lecture will be recorded on the cloud. Once the recording is completed (usually less than 30 minutes), the instructor will post the link of the ***recorded video*** through ***Canvas Announcement***.

Curving of Scores
At the end of the semester, if you want to calculate your final grade/final score by yourself, please use my syllabus for weight distribution (e.g. final exam is 34%).
I will adjust your grade based on the average of students' final scores. Each student's final score considers all assignments and exams according to the weight distribution in my syllabus. If the actual average is lower than 70 (C-), then I will bump it up to make the average=70. For example, if the average is 66, then I will add 4 points to everyone's final score before converting it to the ABCDF grade.
I will handle all the calculations after the final exam and post your grade on student center.
Please don't email me how many points to bump up – the email will be ignored. If there is a point adjustment because of low average scores, I will post an announcement on Canvas.

Emails:
You must watch ALL the videos posted (or attend the lectures) before emailing me a question. Most likely, the answers of your questions have already been covered in the lecture videos with detailed explanations. Please try to avoid sending long emails. It is more efficient to use office hours to solve your problem.

California State University, Sacramento
College of Engineering and Computer Science
Department of Computer Science
Summer 2021

CSC 134 Database Management Systems

Instructor

Dr. Ying Jin, Professor
Office: RVR 5038
Email: jiny@csus.edu

Course Description

Introduction to database system concepts and architecture; Entity-relationship model; ER to relational mapping; Relational algebra; SQL; Functional dependencies and normalization for relational databases; Disk storage, basic file structures, and hashing; Indexing structure for files; Introduction to XML, SQL injection attack, query processing, and transaction processing.

Course Outcomes

Students completing this course will be able to
1. Use Entity-Relationship (ER) model for conceptual design
2. Design a relational database by ER-to-relational mapping
3. Compose queries using relational algebra expressions
4. Use SQL for data definition and data manipulation
5. Analyze a relational database design using Normal Forms
6. Differentiate different types of index structures

Course Website

Canvas. PLEASE check the announcement on Canvas at least twice a day!

Zoom Meetings

https://csus.zoom.us/j/84088850878?pwd=eGI5N2dORE5ieGduQkxtcXF3OURIQT09
Meeting ID: 840 8885 0878
Passcode: 365988

Office Hours

Monday, Tuesday, Wednesday, Thursday 3:25 pm – 3:45 pm
https://csus.zoom.us/j/86413083959

Attendance Policy

Students are expected to either attend the lectures or watch the recorded lectures. No penalty to students who become ill or are placed under quarantine during the COVID-19 pandemic.

Textbook

Elmasri and Navathe, *Fundamentals of Database Systems*, 7th Edition, Addison-Wesley Publishing

Pre-Requisites

CSc 130 (with a C- or better))

Grading

Assignment: 39%
(assignment1: 4%, assignment2: 6%, assignment 3: 7%, assignment4: 10% assignment5: 12%)
Weekly Homework: 5%
Midterm Exam: 23%
Final Exam: 33%

Grading Policy

Due date of each assignment is firm. However, the due date will be adjusted for students who become ill or are placed under quarantine during the COVID-19 pandemic. (see "Additional Information")

Grading Scale:

93-100 A	74-76 C
90-92 A-	70-73 C-
87-89 B+	67-69 D+
84-86 B	64-66 D
80-83 B-	60-63 D-
77-79 C+	59 or less F

Coursework

❖ **Assignments**

All assignment submissions must be typed.
Weekly homework does not need to typed. Handwritten submission is acceptable as long as it is clear.

- All assignments and homework must be submitted through Canvas. Other types of submission, such as by email, will not be graded and will get a zero.
- Double check the correctness before your submission. Excuses such as "forgot to include file_xyz in my submission", "submit a wrong version", "submit a wrong file" will NOT be considered.
- Double check that your submission is in the status of "submitted". Excuses such as "didn't know the submission failed", "submitted to a wrong place" will NOT be considered.
- If the submitted files are not readable or cannot be opened, you will get a zero as the grade.
- If an assignment requires submitting a certain type of file, for example PDF, submitting any other types of files will get a zero as the grade.

- If there is more than one submission for the same assignment, the last one will be graded, *even if it means the late penalty will be applied.*

View grading feedback:

To view the grading feedback, please check BOTH 1) and 2):

1) Comment section

2) Click "feedback" button/link to see the comments embedded in your files.

Late assignments:

Late assignment will be accepted, the penalties are:

- 1 day late (within 24 hours after the due time): minus (50% * the amount of possible available points of the assignment)
- 2 or more days late (after 24 hours): 0 for the assignment. The assignment will not be graded.

❖ **Return of graded work**

Students can get graded work through Canvas. After the grading is posted on Canvas, students must contact the instructor within 3 working days AND before July 7, 2021, if there is any grading disagreement. After 3 working days and after 7 July, 2021, all scores are final. Students are required to keep backup copies of all submitted work, and also keep all graded work, until after final grades are posted and accepted without disagreement.

Additional Information
(copied from the instructions from the university)

Health & Safety Information:

If you are sick, stay home and do not attend class. Notify your instructor. Please self-diagnose if you are experiencing any COVID- like symptoms (fever, cough, sore throat, muscle aches, loss of smell or taste, nausea, diarrhea, or headache) or have had exposure to someone who has tested positive for COVID. Contact Student Health & Counseling Services (SHCS) at 916-278-6461 to receive guidance and/or medical care. You are asked to report any possible COVID related illnesses/exposures to SHCS via this link COVID-19 Illness/Exposure Report Form https://sacstateshcs.wufoo.com/forms/covid19-illnessexposure-report/.

Expect a call from SHCS within 24 hours. The CDC provides a good source of information regarding COVID-19 and a way to self-check symptoms: https://www.cdc.gov/coronavirus/2019-ncov/index.html

Campus Support:

Services to Students with Disabilities (SSWD) (https://www.csus.edu/student-affairs/centers-programs/services-students-disabilities/) offers a wide range of accommodation services that ensure students with disabilities have equal access and opportunity to pursue their educational goals.

Student Health and Counseling Services (https://www.csus.edu/student-life/health-counseling/) staff are committed to continuing to provide exceptional service to our campus community. Though many students may be away from campus, most services are offered using secure remote technology.

If you are experiencing challenges with food, housing, financial or other unique circumstances that are impacting your education, help is just a phone call or email away! The CARES office provides case management support for any enrolled student. Email the CARES office at cares@csus.edu to speak with a case manager about the resources available to you. Check out the CARES website.

Course Outline (Tentative schedule)

Week 1   Database system concepts and architecture, Entity-Relationship model

Week 2   Relational Data model, ER to relational Mapping

Week 3   Relational algebra, SQL

Week 4   SQL

June 22   Midterm exam (you can take it anytime, 6:00 am - 11:59 pm)

Week 5   Normalization, Disk storage and basic file structure

Week 6   Hashing, Indexing Structure for files. XML, Introduction to SQL Injection
                   Attack, query processing, transaction processing

July 8   Final Exam (you can take it anytime, 6:00 am - 11:59 pm)