

CS 5600 : Advanced Database Systems

Instructor: Dr. Chen-Fu Chiang
Time: Monday and Wednesday 1:30 PM - 3:20 PM
Location: Summit Center 146
Office Hours: Monday - Thursday 12:30 PM - 1:30 PM and 5:20 PM - 6 PM or by appointment

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Text

Database Systems Concepts, 6th Ed, by A. Silberschatz, H. F. Korth, S. Sudarshan.

Prerequisites

CS 4600

Topics : (Chapter 10 - 16)

- Storage and File Structure
- Index and Hashing
- Query Processing
- Query Optimization
- Transactions
- Concurrency Control
- Recovery System
- If time allows, we will explore topics such as Distributed Databases

Grading

The lecture format will be the basic mechanism used in the course. Computer demonstrations in the classroom will be used whenever appropriate. Assessment of student performance will use a criterion-referenced model which will include written assignments (30%, might contain programming assignments), regular examinations (midterm 30%) and a comprehensive final exam (40%). Assignments must be turned in at the beginning of the class on the due date. Late assignment will **not be accepted** due to the short period of summer section. All examinations are closed-book. A typical grading scale will be as follows:

Percent	Grade
90 -100	A
80 - 89	B
70 - 79	C
60 - 69	D
Below 60	F

Academic Integrity/Policy

Plagiarism and Cheating of any kind on an examination, quiz, or assignment will result at least in an F in that assignment (and may, depending on the severity of the case, lead to an F for the entire course). See the UCM Academic Dishonesty Policy at <http://www.ucmo.edu/student/documents/honest.pdf>. I will assume for this course that you will adhere to the academic creed of this University and will maintain the highest standards of academic integrity. In other words, do not cheat by giving answers to others or taking them from anyone else. Make-ups are only given under extreme circumstances. I will also adhere to the highest standards of academic integrity, so please do not ask me to change (or expect me to change) your grade illegitimately or to bend or break rules for one person that will not apply to everyone.

Attendance

When absence due to some circumstances, such as documented medical issues, a death in the family, or military order, a student may ask the Office of Student Experience and Engagement to verify the absence. If the absence is verified, the student will be provided a written electronic notice which he/she may distribute to faculty. It is the responsibility of the student to make the request with a reasonable time frame, distribute the documentation to faculty within two days of receiving it and to make arrangements with faculty to make up all missed work.

The University Health Center does not provide medical excuses and/or Time-In Time-Out slips to students for the purpose of being excused from class. When medically indicated, the health center may recommend a student not attend class. Student Experience and Engagement will be contacted by the University Health Center staff to communicate the recommended absence to the students instructors.