

Sul Ross State University
A Member of the Texas State University System
CS3331 - Advanced Database Systems
Syllabus – spring 2016

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Class 11:00 am - 12:15 pm TR Briscoe Administrative 00302

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COURSE OBJECTIVES

Upon completion of this course, participants will have gained knowledge of database system concepts and the ability to:

- understand user requirements/views
- analyze existing and future data processing needs
- develop an enterprise data model that reflects the organization's fundamental business rules
- develop and refine the conceptual data model, including all entities, relationships, attributes, and business rules
- integrate and merge database views into conceptual model
- apply normalization techniques
- identify data integrity and security requirements
- derive a physical design from the logical design taking into account application, hardware, operating system, and data communications networks requirements
- utilize prototyping as a rapid application development (RAD) method to implement a PC database (e.g., Microsoft Access® for the PC)

TEXTBOOK AND SUPPLIES

Concepts of Database Management, 8th Edition
Philip J. Pratt Grand Valley State University
Mary Z. Last, ISBN-10: 1285427106 | ISBN-13: 9781285427102

Teaching Methods

1. Assignments: Problems, cases and readings will be periodically assigned to Help support and supplement material found in the textbook. No make ups are allowed, unless medical or extreme conditions are considered.
2. Exams: Quizzes and at least four exams and Final will be assigned.

These exams will be delivered through Blackboard with a time limit. No make-ups are allowed, unless medical or extreme conditions are considered.

3. Final Project/Paper: You will be required to present a/an individual/group-research paper in this course.

Grading

Letter grades will be determined using a standard percentage point evaluation as outlined below.

A 900 - 1000 points

B 800 - 899 points

C 700 – 799 points

D 600 – 699 points

F Below 600 points

The final grade will be computed on the following weights:

Exam 1 (based on chapter 1 & 2) = 10% OR 100 points

Exam 2 (based on chapter 3 & 4) = 10% OR 100 points

Exam 3 (based on chapter 5 & 6) = 10% OR 100 points

Exam 4 (based on chapter 7 & 8) = 10% OR 100 points

Final Exam (based on chapter 9 &10) = 20% OR 200 points

Assignments = 15% OR 150 points

Participation = 5% OR 50 points

Final Project = 20% OR 200 points

Total Points 1000

Academic dishonesty

You are expected to do your own work on all assignments, exams, quizzes, and projects. Any dishonest work will be penalized with a grade of zero.

Attendance

Any student who accumulates 5 absences will be automatically dropped from this course.

Need for assistance

Qualified students with disabilities needing academic or other accommodations to ensure full participation in the programs, services and activities at Sul Ross State University should contact the Disabilities Services Coordinator, in Counseling and Prevention Services, Ferguson Hall 112, Box C-117, Alpine, Texas 79832.

Posting of Grades

As soon as assignments, exams, and quizzes are graded, the grades will be posted in Blackboard.

Cheating Policy

Students are expected to uphold the school's standard of conduct relating to academic honesty. Students assume full responsibility for the content and integrity of the academic work they submit. The guiding principle of academic integrity shall be that a student's submitted work, examinations, reports, and projects must be that of the student's own work. Students shall be guilty of violating the honor code if they:

1. Represent the work of others as their own.
2. Use or obtain unauthorized assistance in any academic work.
3. Give unauthorized assistance to other students.
4. Modify, without instructor approval, an examination, paper, record, or report for the purpose of obtaining additional credit.
5. Misrepresent the content of submitted work.

The penalty for violating the honor code is severe. Any student violating the honor code is subject to receive a failing grade for the course and will be reported to the Office of Student Affairs. If a student is unclear about whether a particular situation may constitute an honor code violation, the student should meet with the instructor to discuss the situation. For this class, it is permissible to assist classmates in general discussions of computing techniques. General advice and interaction are encouraged. Each person, however, must develop his or her own solutions to the assigned projects, assignments, and tasks. In other words, students may not "work together" on graded assignments. Such collaboration constitutes cheating. A student may not use or copy (by any means) another's work (or portions of it) and represent it as his/her own. If you need help on an assignment, contact your instructor, not other classmates.

Disabilities Policy

In compliance with the Americans with Disabilities Act (ADA), all qualified students enrolled in this course are entitled to "reasonable accommodations." Please notify the instructor during the first week of class of any accommodations needed for the course.