University *of* Guam

Computer Science Department

CS315 – Introduction to Database Management Systems

Credits: 3
Prerequisites: CS201
Section 1: Tuesday and Thursday 16:00-17:20 (4:00pm to 5:20pm) Room TBA
Section 2: Monday and Wednesday 16:00-17:20 (4:00pm to 5:20pm) Room TBA

Instructor: Robert Laurie
Office: HS248
Telephone: 735-2833
Email: bob@guam.uog.edu
Web Site: http://www.islandman.org
Office Hours:
Monday and Wednesday 12:30pm to 2:00pm
Tuesday and Thursday 2:30pm to 4:00pm

Textbook:
Database Systems: Design, Implementation, and Management, 5th Edition
Authors: Peter Rob, Carlos Coronel, 2002, ISBN: 061906269X

Description:

CS315 is an introduction to the design, implementation, and management of relational database systems. Topics include the role of databases in organizations; types and functions of database management systems; conceptual data modeling, entity/relationship data models; and the principles of relational database design. The implementation and maintenance of database management systems and the role of the database administrator are discussed. SQL (Structured Query Language) will be utilized for querying the database.

Grades:

The grade in the course will be based on scores from two 100-point exams, the final exam, and several projects. The point distribution is shown below with a maximum of 500 points.

Items	Scores	Percent
2 x 100 pt. Exams	200	40%
Final Exam	150	30%
Projects	150	30%
Total	500	100%

Grade	Score	Percent
A	500 to 450	100.0 to 90.0%
B	449 to 400	89.9 to 80.0%
C	399 to 350	79.9 to 70.0%
D	349 to 300	69.9 to 60.0%
F	< 300	Less then 60%

Exams:

Two 100-point exams will be given weeks 5 and 10. The final exam will be comprehensive and cover topics discussed throughout the course. I encourage students to study together and will not curve scores.

Projects:

Several projects will be assigned. Completed project reports must be submitted on the due dates. Turn in what you have for partial credit on the due date. Grading will be 80% objective (results, explanations, conclusions) and 20% subjective (neatness, clarity, conciseness, extra work). A project report that minimally meets all specifications will receive a score of 80% of the total points. If any portion of a project is plagiarized (Using someone's work and saying it is your own), the entire project will receive a score of zero.

Attendance:

Class attendance is mandatory. If you miss a class or are late for class, it remains your responsibility to obtain information concerning the material covered and upcoming assignments.

Only students with officially excused absences will be able to make up the exams, others will receive a grade of zero. You must contact me via email, to authorize a makeup exam time prior to the scheduled exam time. You need to provide documentation verifying the excused absence. Failure to comply with these requirements will result in a score of zero for the exam.

CS315 Course Schedule (Tentative)

Date:	Topics:	Read Before Class:
Week 0	Introduction to Databases	
Week 1	File Systems and Databases	Chapter 1
Week 2	The Relational Database Model	Chapter 2
Week 3	Entity Relationship (E-R) Modeling	Chapter 3
Week 4	Entity Relationship (E-R) Modeling Continued	Chapter 3
Week 5	Exam 1: First class – February 23,24 Normalization of Database Tables	 Chapter 4
Week 6	Normalization of Database Tables	Chapter 4
Week 7	Structured Query Language (SQL)	Chapter 5
Week 8	Structured Query Language (SQL) Continued	Chapter 5
Week 9	Database Design	Chapter 6
Week 10	Database Design Continued Exam 2: First class – March 29,30	Chapter 6
Week 11	Conceptual Design	Chapter 7
Week 12	Design Verification, Logical Design, and Implementation	Chapter 8
Week 13	Client/Server Systems	Chapter 13
Week 14	Databases in Electronic Commerce	Chapter 14
Week 15	Final Project Presentations	
Week 16	Final Exam	