CSCI 340 **Introduction to Database** **Summer 2015**

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Office Hrs: Online and by appointment via email

Catalog Description:

This course is an introduction to database systems and information management. It is designed to develop entry-level knowledge and skills in data modeling, design, and the representation of information in relational database systems. Structured Query Language and advanced features of relational database systems will be utilized to develop database applications. In addition, this course will include topics on the physical characteristics of databases, techniques for improving access to information, and improving performance and reliability with relational database systems.

Prerequisite: CSci 233 or co-requisite CSci 270 or departmental approval. Prerequisites: CSci 233 or co-requisite CSci 270 or departmental approval.

Student Learning Outcomes:

(measured by exam, quiz, lab, and homework assignment results)

1. Install, configure, and interact with a relational database management system.
2. Describe, define and apply the major components of the relational database model to database design.
3. Learn and apply the Structured Query Language (SQL) for database definition and manipulation.
4. Utilize a database modeling technique for a single entity class, a one-to-one (1:1) relationship between entity classes, a one-to-many (1:M) relationship between entity classes, a many-to-many (M:M) relationship between entity classes.
5. Define, develop, and process single entity, 1:1, 1:M, and M:M database tables.
6. Learn and implement the principles and concepts of database administration, control, security, backup and recovery.
7. Learn and apply database processing applications, web application database processing.
8. Learn the concepts of Big Data, data warehouses, and business intelligence (BI) systems.

Text: Database Concepts, 7th **edition** by David M. Kroenke and David Auer
ISBN 978-0133544626

Course Policies

Makeups:

If you know ahead of time that you'll have to miss a quiz, let me know and it may be possible for you to take a quiz outside of class. Taking a quiz *after* the rest of the class does is usually possible only if you take it before the next class period when the graded quizzes will be returned to the class.

Attendance:

You are responsible for everything covered in all class meetings, whether you're in class or not.

Drops:

If you are making an obvious effort in the course at the time you drop (still attending class, attempting program and lab assignments), you may drop passing no matter what your actual grade might be. If you just disappear, your grade will be whatever you have actually earned at the end of the semester (usually a grade of F). If you find that you are unable to complete the course, please be sure to drop the course to avoid receiving an F; you will not be automatically dropped.

TENTATIVE electronic statement:

This course is a traditional in class course, however materials will be supplemented with electronic content.

Announcements:

Any announcements pertaining to class will be sent out via Leomail.

Document Sharing:

Any electronic documents will be distributed via Leomail.

Some recommendations for a successful semester:

1) **Be here** as often as possible.

2) **Read assignments** and be ready for what we'll be talking about in class.

3) **Ask** if you don't understand something.

4) **Get help** (sooner rather than later) if you have problems.

   - make friends with at least one person in class so you can compare notes or check for anything you might have missed
   - get a study group together

5) **Stay caught up** as much as possible.

6) **Get started** on assignments so that you have time to get help if you find you need some help.

7) **Do your own work.** Consult with others about problem-solving strategies, but **do your own work**.

8) What you get out of any class depends to a very large degree on what you're willing to put into it.

Get in the habit of writing little practice programs to try out new language features as we learn them. As you write more programs (even small ones), the process becomes easier, you're much more likely to remember how the language works, and you get much better at programming logic (the hardest part of computer programming).

9) Know your own limits and don't over-extend yourself any more than necessary.

University Policies and Announcements

Students with Disabilities: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact: **Office of Student Disability Resources and Services** **Texas A&M University-Commerce** **Gee Library** **Room 132** **Phone (903) 886-5150 or (903) 886-5835** **Fax (903) 468-8148** StudentDisabilityServices@tamuc.edu
"All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment." (See Student's Guide Handbook, Policies and Procedures, Conduct)
EARLY INTERVENTION FOR FIRST YEAR STUDENTS: Early intervention for freshmen is designed to communicate the University's interest in their success and a willingness to participate fully to help students accomplish their academic objectives. The university through faculty advisors and mentors will assist students who may be experiencing difficulty to focus on improvement and course completion. This process will allow students to be knowledgeable about their academic progress early in the semester and will provide faculty and staff with useful data for assisting students and enhancing retention. Grade reports will be mailed by the end of the sixth week of the semester.
All students should be aware that plagiarism is a serious offense. This is true not only of written essays but also of work written in computer languages such as SQL. Copying code for assignments from other students or the internet is not allowed. You may certainly discuss with one another the general aspects of programming assignments (like "what does this requirement mean?") and strategies for coding solutions for these assignments, but you must write the actual code for the programming assignments on your own.

TENTATIVE COURSE SCHEDULE

The tentative course schedule will be posted. Sometimes it is necessary to extend due dates or make changes/correction to assignments. Any changes to the schedule will be announced and reflected in the course schedule. Please check announcements regularly for changes or updates.