

# **Syllabus and Course Outline**

## **MIS 526 Database Management**

**Professor:** *Dr. Bob Folden*

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**Office Hours:** *Monday and Thursday 11:00 am to 12:00 pm, Tuesday 1:00 pm to 5:00 pm and other times by special appointment.*

### **Course Description:**

This course provides a foundation for the design, implementation, and management of database systems. Students will study both design and implementation issues, however, database management issues will be emphasized. Management issues will include transaction management and concurrency control, distributed database management systems, and database administration.

### **Course Prerequisite(s):**

MIS 128 or CSci 126 or ETec 224 or IET 101 or consent of instructor.

## Course Objectives:

1. Understand the advantages, disadvantages and characteristics of file systems and different types of database systems, especially RDMS and its functions.
2. Understand the basic relational database and table components and concepts.
3. Understand how to interpret the symbols for E-R modeling tools and how ERD components affect database design and implementation.
4. Understands what normalization is, normalization techniques and what role normalization plays in the database design process.
5. Understands how SQL is used for data manipulation, querying and data administration and the basic commands and functions of SQL.
6. Understands how to conduct a database initial study and conceptual design and the steps involved in the Database Life Cycle.
7. Understands how database transactions are managed, including concurrency control and database recovery, so as to maintain database integrity.

## Accommodations

Students requesting accommodations for disabilities must go through the Academic Support Committee. For more information, please contact the Director of Disability Resources & Services, Halladay Student Services Bldg., Room 303D, (903) 886-5835.

## Conduct

“All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment.” ([See Guidebook, p. 42-45](#))

## Academic Integrity

Academic integrity is the pursuit of scholarly activity free from fraud and deception and is an educational objective of this institution. Academic dishonesty includes, but is not limited to, cheating, plagiarizing, fabricating of information or citations, facilitating acts of academic dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students

***All work submitted to this Instructor may be submitted to an academic integrity verification service such as Turnitin.com.***

**You are responsible for authenticating any assignment submitted to this instructor. If asked, you must be able to produce proof that the assignment submitted is actually your own work. Therefore, it is recommended that you engage in a verifiable working process on assignments. Keep copies of all drafts of your work, make photocopies of research materials, keep logs or journals of your work on assignments, and papers, learn to save a version of assignments under individual filenames on computers or diskettes, etc.**

**The inability to authenticate your work, should it be requested, is sufficient grounds for failing an assignment.**

“Requests from students with disabilities for reasonable accommodations must go through the Academic Support Committee. For more information, please contact the office of Advisement Services, BA 314, (903) 886-5133.”

## Appeals Process:

Students taking online classes at Texas A&M University-Commerce have the same rights as students enrolled in face-to-face classes. The A&M-Commerce Student [Guidebook](#) (page 55) details those rights and explains complaint and grievance procedures, as well as the Student Code of Conduct. Students have the right to appeal course grades, [Guidebook](#) (page 35), admissions committee decisions, or any adverse action taken by any *online* faculty against any student. The appeal process is the same for all types of appeals.

## Textbook(s) and Other Materials:

### Required:

*Hands-on Database: An Introduction Database Design and Development.* Conger, S., 2012. ISBN-13: 9780132837743 or go here: <http://www.coursesmart.com/IR/932765/9780136108283?hdv=6.8> (\$35.99)

eText Rental Link: <http://www.coursesmart.com/IR/940705/9780136108283>

*SQL: Visual QuickStart Guide*, 3<sup>rd</sup> Edition. Fehily, C., 2008 ISBN-13: 978-0-321-58406-9

eText Rental Link (Safari): <http://www.mypearsonstore.com/bookstore/product.asp?isbn=0321553578&xid=PSED>

## Grading:

Grading Percentages	
A =	90= percent of total points
B =	80-89 percent of total points
C =	70-79 percent of total points
D =	60-69 percent of the total points
F =	59- or less percent of the total points

Eight Assignments @ 200 points	1,600
Ten Discussions @ 20 points	200
Journal submissions for 200 points	200
Four SAP HANA Activities @ 200 points	800
<b>Total Points Possible</b>	<b>2,800</b>

**You will submit your work through eCollege.**

Late assignments may have points deducted from the final score.

**Using someone else's words or ideas as if they were your own is plagiarism. The way to avoid this is to give credit to the author. Use citations to give credit to the author; you will gain the respect of other professionals, and you will also avoid an automatic F on the paper and most likely for the course.**

“All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment.” (See the Student’s Guide Book)

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## Journaling

In any information system work, you need to develop the habit of journaling. It is a method of documenting your progress in the project and the hurdles that confront you. It is very much similar to internal documentation, but with a twist. Not only do you state what you are doing and why it is necessary, but you identify the difficulties that you confronted in the process. In a sense, you will identify all of the false starts, as well as what you ended up doing.

In this course, you will use the Journaling app at the top of the eCollege page. You will include a copy of the work that you submit for each assignment, with annotations that identify what all you did and why you did it. Consider this your diary of the project that will include both the trials and blessings of your trek to a finished database. Most of your assignments will have to be cut and pasted into the window provided. You will not be able to include much in the form of graphics as the box is a text box. I would encourage you to attempt different things to see how this works. The most important thing is to document your thoughts and efforts.

### Course Outline and Assignments:

Unit	Date	Reading Assignment	Assignment
1	July 14	Chapter 1 in HOD Introduction in VQG SQL	Assignment 1: Granfield College P. 18
2	July 21	Chapter 2 in HOD	Assignment 2: Granfield College P. 39
		Chapter 3 in HOD Chapter 3 in VQG SQL	Assignment 3: Granfield College P. 59
3	July 28	Chapter 4 in HOD	Assignment 4: Granfield College P. 79
		Chapter 5 in HOD Chapter 2 in VQG SQL	Assignment 5: Granfield College P. 99 SAP HANA Activity 1
4	August 4	Chapter 6 in HOD Chapter 3 in VQG SQL	Assignment 6: Granfield College P. 122 SAP HANA Activity 2
		Chapter 7 in HOD Chapter 10 in VQG SQL	Assignment 7: Granfield College P. 150 SAP HANA Activity 3
5	August 6	Chapter 8 in HOD Chapter 13 in VQG SQL	Assignment 8: Granfield College P. 169 SAP HANA Activity 4 <b>No work accepted after this date!!!!</b>

<sup>+</sup> Assignments are due 2400 hours (midnight) of the date that they are assigned.