



# **BUSA 526: Data & Information Management**

## **COURSE SYLLABUS: Fall 2021**

**Instructor:** Peter Drewes

**Office Hours:** By appointment

**University Email Address:** [Peter.Drewes@tamuc.edu](mailto:Peter.Drewes@tamuc.edu)

**Preferred Form of Communication:** Email (the subject of email should start with BUSA 326)  
**Communication Response Time:** 24 hours

### **COURSE INFORMATION**

#### ***Textbook(s) Required***

SQL Queries for Mere Mortals: A Hands-On Guide to Data Manipulation in SQL, 4th Edition by Viescas, Hernandez, ISBN: ISBN-13: 978-0-13-485833-3

Download datafiles from the following link:

<http://www.informit.com/store/sql-queries-for-mere-mortals-a-hands-on-guide-to-data-9780134858333>

#### ***Software Required***

MySQL will be utilized as the database tool in this course. Further instruction on this tool will be provided in eCollege once this course commences

#### ***Course Description***

This course will introduce the basic concepts of data and information management. The main focus of the course will be on identifying information requirement of organizations, modeling the data, and converting them into relational data models.

***Student Learning Outcomes:*** Upon completion of the course, student should be able to

1. Understand how information systems are used in organizations to improve decision making process to achieve goals
2. Understand basics of information systems concept and be able to apply it
3. Design database models and manipulate data to derive information using SQL.
4. Understand the differences between the different products on the market supporting SQL
5. Translate problem statements into SQL algorithms that answer the questions

*The syllabus/schedule are subject to change.*

# COURSE REQUIREMENTS

## ***Minimal Technical Skills Needed***

Using the learning management system and using Microsoft Excel and PowerPoint, MySQL (in the class, the required knowledge about the package will be covered).

## ***Student Responsibilities or Tips for Success in the Course***

Students need to regularly logging into the course website and check their emails to make sure that they have the latest information about the course.

## GRADING

Final grades in this course will be based on the following scale:

A = 90%-100%

B = 80%-89%

C = 70%-79%

D = 60%-69%

F = 59% or Below

## ***Assessments***

The final grade is based on the following criteria.

Assignments/ Tests	Percentage
Homework	12.5%
Quiz	12.5%
Project	20%
Report Paper	10%
Midterm exam	20%
Final exam	25%

**Homework/Quiz** will be posted on the course website each week and students need to submit the homework in the next week. Late assignments are highly discouraged. For each day an assignment is late it will be deducted 10%. Under NO circumstances will I accept an assignment more than a week late.

The **project** and its guidelines will be posted on the course website. The project is an individual effort and students should submit a comprehensive report including description of the situation, analysis of the problem and the detailed analysis and solution approach. The format of the report will be provided on the course website.

**Midterm** and **final exams** will be posted on the course website.

*The syllabus/schedule are subject to change.*

## **TECHNOLOGY REQUIREMENTS**

### **Browser support**

D2L is committed to performing key application testing when new browser versions are released. New and updated functionality is also tested against the latest version of supported browsers. However, due to the frequency of some browser releases, D2L cannot guarantee that each browser version will perform as expected. If you encounter any issues with any of the browser versions listed in the tables below, contact D2L Support, who will determine the best course of action for resolution. Reported issues are prioritized by supported browsers and then maintenance browsers.

Supported browsers are the latest or most recent browser versions that are tested against new versions of D2L products. Customers can report problems and receive support for issues. For an optimal experience, D2L recommends using supported browsers with D2L products.

Maintenance browsers are older browser versions that are not tested extensively against new versions of D2L products. Customers can still report problems and receive support for critical issues; however, D2L does not guarantee all issues will be addressed. A maintenance browser becomes officially unsupported after one year.

Note the following:

- Ensure that your browser has JavaScript and Cookies enabled.
- For desktop systems, you must have Adobe Flash Player 10.1 or greater.
- The Brightspace Support features are now optimized for production environments when using the Google Chrome browser, Apple Safari browser, Microsoft Edge browser, Microsoft Internet Explorer browser, and Mozilla Firefox browsers.

### **Desktop Support**

<b>Browser</b>	<b>Supported Browser Version(s)</b>	<b>Maintenance Browser Version(s)</b>
Microsoft® Edge	Latest	N/A
Microsoft® Internet Explorer®	N/A	11
Mozilla® Firefox®	Latest, ESR	N/A
Google® Chrome™	Latest	N/A
Apple® Safari®	Latest	N/A

*The syllabus/schedule are subject to change.*

## Tablet and Mobile Support

Device	Operating System	Browser	Supported Browser Version(s)
Android™	Android 4.4+	Chrome	Latest
Apple	iOS®	Safari, Chrome	The current major version of iOS (the latest minor or <b>point</b> release of that major version) and the previous major version of iOS (the latest minor or <b>point</b> release of that major version). For example, as of June 7, 2017, D2L supports iOS 10.3.2 and iOS 9.3.5, but not iOS 10.2.1, 9.0.2, or any other version.  Chrome: Latest version for the iOS browser.
Windows	Windows 10	Edge, Chrome, Firefox	Latest of all browsers, and Firefox ESR.

- You will need regular access to a computer with a broadband Internet connection. The minimum computer requirements are:
  - 512 MB of RAM, 1 GB or more preferred
  - Broadband connection required courses are heavily video intensive
  - Video display capable of high-color 16-bit display 1024 x 768 or higher resolution
- You must have a:
  - Sound card, which is usually integrated into your desktop or laptop computer
  - Speakers or headphones.
  - \*For courses utilizing video-conferencing tools and/or an online proctoring solution, a webcam and microphone are required.
- Both versions of Java (32 bit and 64 bit) must be installed and up to date on your machine. At a minimum Java 7, update 51, is required to support the learning management system. The most current version of Java can be downloaded at: [JAVA web site http://www.java.com/en/download/manual.jsp](http://www.java.com/en/download/manual.jsp)
- Current anti-virus software must be installed and kept up to date.

Running the browser check will ensure your internet browser is supported.

*The syllabus/schedule are subject to change.*

Pop-ups are allowed.  
JavaScript is enabled.  
Cookies are enabled.

- You will need some additional free software (plug-ins) for enhanced web browsing. Ensure that you download the free versions of the following software:
  - [Adobe Reader](https://get.adobe.com/reader/) <https://get.adobe.com/reader/>
  - [Adobe Flash Player](https://get.adobe.com/flashplayer/) (version 17 or later) <https://get.adobe.com/flashplayer/>
  - [Adobe Shockwave Player](https://get.adobe.com/shockwave/) <https://get.adobe.com/shockwave/>
  - [Apple Quick Time](http://www.apple.com/quicktime/download/) <http://www.apple.com/quicktime/download/>
- At a minimum, you must have Microsoft Office 2013, 2010, 2007 or Open Office. Microsoft Office is the standard office productivity software utilized by faculty, students, and staff. Microsoft Word is the standard word processing software, Microsoft Excel is the standard spreadsheet software, and Microsoft PowerPoint is the standard presentation software. Copying and pasting, along with attaching/uploading documents for assignment submission, will also be required. If you do not have Microsoft Office, you can check with the bookstore to see if they have any student copies.

## **ACCESS AND NAVIGATION**

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or [helpdesk@tamuc.edu](mailto:helpdesk@tamuc.edu).

**Note:** Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, a TAMUC campus open computer lab, etc.

## **COMMUNICATION AND SUPPORT**

### **Brightspace Support**

#### ***Need Help?***

#### **Student Support**

If you have any questions or are having difficulties with the course material, please contact your Instructor.

#### **Technical Support**

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778 or click on the **Live Chat** or click on the words “[click here](#)” to submit an issue via email.



*The syllabus/schedule are subject to change.*

## **System Maintenance**

Please note that on the 4th Sunday of each month there will be System Maintenance which means the system will not be available 12 pm-6 am CST.

## **Interaction with Instructor Statement**

**The instructor's communication response time and feedback on assessments are stated clearly.**

## **COURSE AND UNIVERSITY PROCEDURES/POLICIES**

### **Course Specific Procedures/Policies**

**Attendance/Lateness, Late Work, Missed Exams and Quizzes and Extra Credit**

### **Syllabus Change Policy**

The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.

### **University Specific Procedures**

#### **Student Conduct**

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The Code of Student Conduct is described in detail in the [Student Guidebook](#).

<http://www.tamuc.edu/Admissions/oneStopShop/undergraduateAdmissions/studentGuidebook.aspx>

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum: [Netiquette](#)

<http://www.albion.com/netiquette/corerules.html>

#### **TAMUC Attendance**

For more information about the attendance policy please visit the [Attendance](#) webpage and [Procedure 13.99.99.R0.01](#).

<http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx>

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/academic/13.99.99.R0.01.pdf>

#### **Academic Integrity**

Students at Texas A&M University-Commerce are expected to maintain high standards of integrity and honesty in all of their scholastic work. For more details and the definition of academic dishonesty see the following procedures:

[Undergraduate Academic Dishonesty 13.99.99.R0.03](#)

*The syllabus/schedule are subject to change.*

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf>

[Graduate Student Academic Dishonesty 13.99.99.R0.10](#)

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/graduate/13.99.99.R0.10GraduateStudentAcademicDishonesty.pdf>

## **ADA Statement**

### **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 162

Phone (903) 886-5150 or (903) 886-5835

Fax (903) 468-8148

Email: [studentdisabilityservices@tamuc.edu](mailto:studentdisabilityservices@tamuc.edu)

Website: [Office of Student Disability Resources and Services](#)

<http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/>

### **Nondiscrimination Notice**

Texas A&M University-Commerce will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

### **Campus Concealed Carry Statement**

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in Texas A&M University-Commerce buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and A&M-Commerce Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations.

For a list of locations, please refer to the [Carrying Concealed Handguns On Campus](#) document and/or consult your event organizer.

*The syllabus/schedule are subject to change.*

Web url:

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf>

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all A&M-Commerce campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

## The University's Pandemic Response

A&M-Commerce requires the use of face-coverings in all instructional and research classrooms/laboratories. Exceptions may be made by faculty where warranted. Faculty have management over their classrooms. Students not using face-coverings can be required to leave class. Repetitive refusal to comply can be reported to the Office of Students' Rights and Responsibilities as a violation of the student Code of Conduct. "Students should not attend class when ill or after exposure to anyone with a communicable illness. Communicate such instances directly with your instructor. Faculty will work to support the student getting access to missed content or completing missed assignments.

## COURSE OUTLINE / CALENDAR

Week	Agenda/Reading Materials	Hints
Week 1	Introduction & Introduction to Data & Database Management	
Week 2	Ch.1: What is Relational Ch.2: Ensuring your database is sound	Assignment 1
Week 3	<b>Quiz 1 from Ch.1,2</b> Ch.4: Creating a simple query Ch. 16: Inserting Sets of Data	<b>Quiz 1</b> Assignment 2
Week 4	Ch.5: Getting more than simple columns Ch.6: Filtering Your data	Assignment 3
Week 5	<b>Quiz 2 from Ch. 4,5,6</b> Ch.7: Thinking in sets, Ch.8: Inner join	<b>Quiz 2</b> Assignment 4
Week 6	Ch.8: Inner join	Assignment 5
Week 7	Ch.8: Inner join Midterm Review <b>Quiz 3 from Ch. 7,8</b>	<b>Quiz 3</b> Assignment 6
Week 8	Ch. 11: Subquery <b>Midterm from Ch. 1,2,3,4,5,6,7,8</b>	<b>Midterm</b> Assignment 7
Week 9	Ch. 11: Subquery	Assignment 8
Week 10	Ch. 12: Simple Totals Ch. 13: Grouping Data	Assignment 9
Week 11	<b>Quiz 4 from Ch.11</b> Ch. 14: Filtering Grouped Data Ch. 15: Updating Sets of Data	<b>Quiz 4</b> Assignment 10
Week 12	<b>Quiz 5 from Ch.12,13,14, 15</b> Ch. 17: Deleting Sets of Data	<b>Quiz 5</b> Assignment 11
Week 13	Ch.19: Condition testing	Assignment 12

*The syllabus/schedule are subject to change.*



Week 14	<b>Quiz 6 from Ch.16,17,19</b> topics Review	<b>Quiz 6</b>
Week 15	Exam Review	Project
Week 16	FINAL EXAM	Final Exam

*The syllabus/schedule are subject to change.*