



## **Dillard College of Business Administration**

### **Business and Economic Statistics**

BUAD 3033, Section 101

Fall 2022

TR: 12:30 pm – 1:50 pm

Dillard Building 186

#### **Contact Information:**

Instructor: Dr. Sanchari Choudhury

Office: Dillard Building 220

Office Hours: Tuesday 11:00 am until 12:30 pm,  
Wednesday 12:00 pm until 2:00 pm,  
Thursday 11:00 am until 12:30 pm, or,  
By appointment, or,  
Email me at any “reasonable” time, as I am usually available via email.

Phone: 940.397.4834

Email: [sanchari.choudhury@msutexas.edu](mailto:sanchari.choudhury@msutexas.edu)

#### **Text:**

Anderson, Sweeney, Williams, Camm, Cochran, Fry and Ohlmann, Statistics for Business and Economics, 14<sup>th</sup> Edition, Cengage Learning (Required).

#### **How to access your textbook(digital)**

- 1. Log into MSU portal and click on the GMAIL app.**
- 2. Find the email from BRYTEWAVE/RED SHELF date of 08-14/22 and follow the instructions.**

**NOTE\*\*\* Your book is only associated with your my.msutexas.edu email.**

If you have any questions or need assistance, please feel free to contact us over at the MSU Bookstore (940) 397-4303.

#### **Course Description:**

This course introduces students to statistical application methods. Students will learn how to collect, manage, analyze, and interpret business data. Successful completion of the course will allow students to access the information obtainable from a dataset and present the information in a concise and meaningful form. Covered topics include descriptive statistics,

probability theory, hypothesis testing, correlation, and regression analysis. The course emphasizes business and economic applications.

## **Learning Goals:**

The general objective of this course is to help participants understand fundamental statistical methods and their applications to economic and business issues. One will gain an understanding and mastery of the relationship and application of statistical methods to real life issues.

### **A. General Learning Goals:**

1. **Effective critical thinking and problem-solving skills using statistical methods:** Participants will demonstrate their proficiency in critical thinking and problem solving and decision-making abilities by applying statistical methods through homework, in class discussions, and exams.
2. **Communication skills:** Participants will demonstrate their effective and efficient communication skills when reporting results of statistical analyses.
3. **Social Responsibilities:** Participants will demonstrate their intercultural competency, civic knowledge, and the abilities to engage effectively in regional, national, and global economic and business issues.
4. **Personal Responsibilities:** Participants will demonstrate connecting choices, actions, and consequences to statistical analysis and ethics abilities.

These general learning goals represent or are related to those established by the Dillard College of Business Administration. The goals represent the skills that graduates will carry with them into their careers. While assessing student performance in obtaining these general learning goals, the College seeks to assess its programs. The assessments will assist us as we improve our curriculum and curriculum delivery.

### **B. Course Specific Learning Goals:**

- Understand statistical methods used to describe data
- Learn probability theory
- Learn sampling methods
- Understand confidence intervals
- Understand hypothesis testing
- Conduct correlation analysis
- Conduct regression analysis

## **Teaching Method:**

This is a face-to-face class starting on August 23, 2022, and ending on Dec 8, 2022 as per the 2022-23 academic calendar. Course material will be presented in class through lectures and discussions. Students are highly encouraged to participate regularly and ask questions at any time. In addition, power-point slides and study guides on each chapter will be uploaded on D2L to assist you in learning at home and preparing for exams and assignments. However, reading the textbook (mentioned earlier) is **mandatory** to understand every concept thoroughly and perform well in the course. We may use Excel now and again for our

practical learning. It will be communicated in class and/or through emails on D2L. I will be holding office hours every week (mentioned above) to answer any questions or concerns you may have. If stuck with a concept, you can also reach out to me anytime during the week — besides the designated office hours — through email.

You are expected to regularly check D2L for homework assignments and any other announcements about this class. See the tentative course schedule below.

## **Course Policies:**

### **A. Attendance Policy:**

Attending class is mandatory unless you receive my prior approval for missing a class for **compelling reasons**. All-important announcements of this course (like homework assignments, due exam dates, exam format, etc.) will be made in class. Over and above, every course material is explained and discussed in detail in class. So, failure to attend class will invariably impact your learning process and performance in this course in a negative way.

In addition to the above, attendance will be checked through assignment submissions. Missing four assignments from 08/23/2022 to 09/26/2022 will be considered excessive. Students who reach this level of missed assignments will be automatically dropped with a grade of “F” given the university attendance policy. In addition to this, missing six assignments during the semester is also excessive; students who reach this level of missed assignments will get a final grade of “F” given the university attendance policy. You may find this information in the Student Handbook and Activities Calendar at [Handbook](#). Also note, classroom is not a substitute for day care facility. Hence, you cannot attend a class with a child and if you still choose to do so, you will be asked to leave immediately and counted as absent.

Lastly, you are expected to settle down in the classroom at least a minute before the class formally starts. No late entry will be allowed because once the class starts, the door will be locked from the inside. Entering class late and leaving before time is not allowed unless my prior approval is taken for some compelling reasons. You are also not supposed to walk in and out of the class while the lecture is on (which disturbs both your instructor and your classmates, so be respectful to all).

### **B. Other Course Related**

#### **Policies Academic Integrity:**

As for academic honesty, students must follow the “Student Honor Creed” presented in the [Student Handbook of MSU TX](#) and failure to do so will call for sanctions.

Also, since all your assignments will be conducted through D2L, academic integrity is also applicable in this case. If I learn of students sharing the quiz/assignment contents in any way, that is a breach of academic integrity on all parties' part. Please don't do that, as I don't want to give everyone involved a 0 for the assignments (and potentially an F for the course).

## **Americans with Disability Act:**

Any student who, because of a disability, may require special arrangements in order to meet the requirements of this course should contact the instructor as soon as possible to make necessary arrangements. Students must present appropriate verification from the University's Disability Support Services (DSS) office to the instructor over email or virtual office hours. Please note that instructors are not allowed to provide any accommodations to a student on the basis of disability until appropriate verification from DSS has been provided by the student. (See the section on "Disability Support Services" in the Student Handbook for reference).

## **Campus Carry Policy**

Senate Bill 11 passed by the 84th Texas Legislature allows licensed handgun holders to carry concealed handguns on campus, effective August 1, 2016. Areas excluded from concealed carry are appropriately marked, in accordance with state law. For more information regarding campus carry, please refer to the University's webpage at [campus handgun policy](#).

## **Syllabus Change Policy:**

This syllabus is a guide for the course and is subject to change with an advanced notice.

## **Correspondence:**

All email correspondence must be conducted using your **Midwestern State University (MSU) email only**. I will not respond to any question sent from any other email account. It is highly recommended that you regularly monitor your both MSU email account and that of D2L. For your own convenience, I suggest that you link your D2L emails with your MSU email account such that any incoming message to D2L account will get automatically forwarded to your MSU email account. Note, grades will be posted on D2L and on MSU Banner and not sent over email.

## **Technical Support:**

I, as your instructor for an economics class can only ensure that all the course materials are in working order but beyond that I cannot provide any technical support to a student's hardware/software problems. For problems related to D2L, a student is recommended to contact [MSU Distance Education](#).

## **Late Submissions:**

For homework assignments, I highly recommend that students not wait until the last minute to make their submissions. Since all your assignments, case studies and exams will be through D2L, we are heavily dependent on technology that may decide to abandon us at a crucial moment. Therefore, start working on assignments in advance. Any late submission needs prior permission from me and will automatically incur a penalty of ten

points unless provided with a compelling reason.

For exams, no make-up exam will be allowed unless a student requests my approval in advance *and* for compelling reasons. If you miss an unexcused exam, you receive a zero and there is **no** exception to this policy.

Lastly, if you have any questions or concerns about your grades, bring that to my attention within one week of the homework/exam is graded.

### **Monitoring of Exams:**

All exams taken on D2L will require Respondus Lockdown Browser and Webcam monitoring. So, every student is expected to have access to a webcam from the beginning of the semester. However, these monitoring tools are **not** compatible with Chromebook Laptop, Phones and Tablets. iPad can be used but you need to allow it in the setup. Contact [MSU Distance Education](#) to get proper instructions to execute this.

### **Classroom Decorum:**

You do not need a laptop in class unless you are more comfortable taking notes there than using pen and paper (even though the latter is recommended since many graphs and diagrams will be drawn on the whiteboard while lecturing). Besides, we may use the computer labs now and again for our practical learning through Excel.

Usage of cell phone or any other device is strictly prohibited in class. If a student is caught to do so, he/she will be prompted to leave the class immediately. All electronic devices must be kept away and muted.

### **Grading and Evaluation Measures:**

**Exams:** There will be three (non-cumulative) exams altogether, each of equal weight (20% each). So, **60% of your final grade** depends on your exam performance. This will mainly test your problem-solving ability as you need to *recognize the concept(s)* embedded in each question and then *apply* the concepts learned throughout the course to answer the question correctly. There will be hardly any direct questions in these exams. So, understanding the materials is the only way to succeed in this course, not rote learning.

### **Homework Assignments:**

There will be altogether 15 homework assignments, each based on a chapter. These will help you prepare for your exams. But, you will never get exactly the same questions on your exams. These assignments will together contribute to **20% of your final grade**. As the course progresses, more information and details will be communicated through emails and on D2L.

**Case Study:** There will be two case studies altogether in this course that will contribute to **20% of your final grade**. This will evaluate the practical learning aspect of the materials. As we progress, detailed instructions about this assignment will be communicated through emails and on D2L.

Every student is expected to be in touch with me throughout the semester regarding their performances and grades to avoid any semester-end “surprises.”

**Grading Scale:**

A = 90-100%  
B = 80-89%  
C = 70-79%  
D = 60-69%  
F = <60%

**Note:** Final grades MAY be curved depending on the situation and the instructor's discretion. If a curve is implemented in the current semester, students will be communicated about the same before posting the final grades.

**Class Schedule:**

First day of class: August 22 (Monday)  
No class/office hours: November 23 (Wednesday) – Nov 27 (Sunday) Thanksgiving Break  
Last day for “W”: October 24 (Monday) by 4 pm (drops after this will receive “F”)  
Exam 1: September 20 (Tuesday) (tentative)  
Exam 2: October 25 (Tuesday) (tentative)  
Exam 3: December 8 (Thursday) (definite)

### Course Schedule (tentative)

Weekly Modules	Chapters	Homework Assignments
Week 1 (August 23 - 29)	Go through syllabus thoroughly 1 (Data and Statistics)	HW 1: due August 29 (Monday)
Week 2 (August 30 – September 5)	2 (Descriptive Stats: Tables & Graphs) 3 (Descriptive Stats: Numerical Measures)	HW 2 and HW 3: due September 5 (Monday)
Week 3 (September 6 - 12)	4 (Probability Theory)	HW 4: due September 12 (Monday)
Week 4 (September 13 – 19)	5 (Discrete Probability Distributions)	HW 5: due September 19 (Monday)
<b>Week 5 (September 20 - 26)</b>	<b>Review 1, 2, 3, 4 and 5</b> Work on the First Case Study	<b>Exam 1: due September 20 (Tuesday)</b> Case Study I: due September 22 (Thursday)
Week 6 (September 27 – Oct 3)	6 (Continuous Probability Distributions)	HW 6: due October 3 (Monday)
Week 7 (October 4 - 10)	7 (Sampling) 8 (Interval Estimation)	HW 7 and HW 8: due October 10 (Monday)
Week 8 (October 11 – 17)	9 (Hypothesis Testing)	HW 9: due October 17 (Monday)
Week 9 (October 18 - 24)	10 (Population Means)	HW 10: due October 24 (Monday)
<b>Week 10 (October 25 - 31)</b>	<b>Review 6, 7, 8, 9 and 10</b> Work on the Second Case Study	<b>Exam 2: due October 25 (Tuesday)</b> Case Study II: due October 27 (Thursday)
Week 11 (November 1 – 7)	11 (Population Variances)	HW 11: due November 7 (Monday)
Week 12 (November 8 - 14)	12 (Multiple Proportions and Goodness of Fit)	HW 12: due November 14 (Monday)
Week 13 (November 15 - 21)	13 (Analysis of Variance)	HW 13: due November 21 (Monday)
Week 14 (November 22 - 28) with Thanksgiving break from November 23 - 27	14 (Simple Linear Regression)	HW 14: due November 28 (Monday)
Week 15 (November 29 – December 5)	15 (Multiple Regression)	HW 15: due December 5 (Monday)
<b>Week 16 (December 6 – 9)</b>	<b>Review 11, 12, 13, 14 and 15</b>	<b>Exam 3: due December 8 (Thursday) at 10:30 am as per university schedule</b>