COM
College *of the* Mainland.

BUSI 2305 002IN
Business Statistics
Spring 2024
Internet Course

Instructor Information:

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            Adjunct Business Instructor

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Student hours and location:
Virtual-Wednesday 7pm and by Appointment

Required Textbook/Materials:
Business Statistics for Contemporary Decision-Making, 10th Edition Ken Black,
Wiley Publishing
ISBN# **9781119650966** Business Stats 10e WileyPLUS.com

Textbooks may be new, used, or rented and purchased
from multiple sources. This course uses inclusive
access. No code is required.

Course Description:

This course provides an understanding of the application of finance to the world of business. Students will learn to apply various forms of statistical analysis to data from business organizations to analyze and interpret outcomes for decision-making. Finance topics introduced include probability, discrete and continuous distributions, measures of central tendency, confidence intervals, hypothesis testing, and correlation and regression analysis. Students will learn to use these methods to make professional recommendations to management for desired business outcomes.

Course Requirements:

1. There are four modules that comprise this course. Four tests will be given covering the chapters in the textbook. A list of the chapters covered by each test is provided in the Schedule of Activities. Once you have started the test it cannot be stopped and restarted no matter the circumstance. *The test will automatically close at the time shown in the schedule of activities. It is your responsibility to monitor your time while taking the test.* Only one attempt will be allowed per test. No retakes are allowed. Make-ups are generally not allowed, but the instructor reserves the right to make individual decisions prior to the opening of the test.

2. In the Content section of the course, the four modules contain chapter resources as study aids. These will help you prepare for the tests. None of these are graded, and completion of them is at your discretion. Review activities **can** include PowerPoints, Solutions Manuals, and Adaptive Practice. When available Adaptive Practice is highly recommended and particularly helpful in preparing for tests. They allow for review of simpler questions after a question is missed, and more challenging questions when answered correctly.

3. It is in your best interest to know the material thoroughly prior to starting the tests.
4. There are 12 chapters covered and 1chapter homework assignments. You have no time limit on this homework, as long as it is completed within the dates posted for completion. These homework assignments are designed to be a study aid to help you prepare for the tests. All homework will be open from the beginning of the semester and close on the dates posted in D2L.
5. Each of the four modules includes a **<u>Discussion Board task</u>**. Every Discussion Board requires an initial post answering the questions posed, along with required participation of two substantive posts to classmates. Please refer to the Schedule of Activities for points and D2L for due dates.
6. Each of the 12 chapters covered will require a small project. The projects are varied and may require the use of Excel Descriptive Statistics, Powerpoint, general case work, or a short research paper in MS Word. Most will require sorting, analyzing, and interpreting data using various means of statistical analysis. Each aligns to the topics covered within that chapter.

The following list summarizes the topics and chapters covered by each test:
   A. Test 1 – (Chapters 1-3)
      - Introduction to Statistics & Business Analytics (Chapter 1)
      - Visualizing Data with Charts & Graphs (Chapter 2)
      - Descriptive Statistics (Chapter 3)
   B. Test 2 - (Chapters 4-6)
      - Probability (Chapter 4)
      - Discrete Distributions (Chapter 5)
      - Continuous Distributions (Chapter 6)
   C. Test 3 - (Chapters 7-9)
      - Sampling & Sampling Distributions (Chapter 7)
      - Statistical Inference: Estimation for Single Populations (Chapter 8)
      - Statistical Inference: Hypothesis Testing for Single Populations (Chapter 9)
   D. Test 4 - (Chapters 10,12,19)
      - Statistical Inferences about Two Populations (Chapter 10)
      - Simple Regression Analysis and Correlation (Chapter 12)
      - Decision Analysis (Chapter 19)

Determination of Course Grade/ Detailed Grading Formula:

- Four Tests (100 points each)... 400 points
- Four Discussion Boards (50 points each) ....200 points
- Twelve Chapter Projects (75 points each) ....900 points
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- Twelve Chapter Homework (25 points each) .... 300 points

- **Total Possible Points...1800 points**

The final grade will be based on the following scale:

- A = 90% of the total points -------------- >= 1620
- B = 80% of the total points ------------ 1440-1619
- C = 70% of the total points ------------ 1260-1439
- D = 60% of the total points -------------1080-1259
- F = 59% or less---------------------------- <=1079

Any extra credit points, should they be assigned, will be added to your total possible points.

Course Outline/Schedule of Activities(**Due Dates Listed in Weekly Assignment Module**)

BUSI 2305
Schedule of Activities
(16 week course)

College of the Mainland.

Module	Dates	Required Reading	Tests	Discussion Boards	Projects	Chapter Homework	Due Date (Midnight)
Module 1	Week 1	Chapter 1		Introduction DB	Chapter 1 Project	Chapter 1	
	Week 2	Chapter 2			Chapter 2 Project	Chapter 2	
	Week 3	Chapter 3			Chapter 3 Project	Chapter 3	
	Week 4		Test 1	Module 1 DB			
Module 2	Week 5	Chapter 4			Chapter 4 Project	Chapter 4	
	Week 6	Chapter 5			Chapter 5 Project	Chapter 5	
	Week 7	Chapter 6			Chapter 6 Project	Chapter 6	
	Week 8		Test 2	Module 2 DB			
Module 3	Week 9	Chapter 7			Chapter 7 Project	Chapter 7	
	Week 10	Chapter 8			Chapter 8 Project	Chapter 8	
	Week 11	Chapter 9			Chapter 9 Project	Chapter 9	
	Week 12		Test 3	Module 3 DB			
Module 4	Week 13	Chapter 10			Chapter 10 Project	Chapter 10	
	Week 14	Chapter 12			Chapter 12 Project	Chapter 12	
	Week 15	Chapter 19			Chapter 19 Project	Chapter 19	
	Week 16		Test 4	Module 4 DB			

Point Values | | | | **Important Notes**

Activity	Point Value	# of Activities	Total Points	
Chapter Homework	25	12	300	
Tests	100	4	400	One attempt only for tests.
Discussion Boards	50	4	200	No late work accepted for this course.
Projects	75	12	900	
Total Possible Points			1800	

d.

Late Work, Make-Up, and Extra-Credit Policy:
Due to the fast pace and difficulty of the material in this course, and the fact that much of it builds on the material prior, no late work will be accepted in this course.

If you have a personal or emergency situation, please contact me as soon as practical (in advance when possible) and I will do my best to work with you in a fair and equitable manner. Supporting documentation may be requested.

Any bonus points, make-up work, or other accommodations beyond those offered by COM are at the sole discretion of the instructor. Generally, bonus point or assignments may be offered by assignment or student one to one evaluation.

Attendance Policy:
Attendance in this Internet-driven course is based on the timely submission of weekly assignments. Attendance will be taken each week as determined by the reporting functions in D2L Brightspace and publisher integrated sites. Students will receive credit for 'attending' the class each week based upon the timely submission of an assignment. An assignment may be a discussion board post, a quiz, a test, a project, or any other assigned task within the week as noted on the Schedule of Activities. <mark>The last date of attendance will be the last date an assignment was submitted. Attendance will be tracked in the gradebook and may be applied as bonus points at the end of the term.</mark>

Communicating with your instructor: ALL electronic communication with the instructor must be through your COM email. Due to FERPA restrictions, faculty cannot share any information about performance in the class through other electronic means. (Faculty may add additional statement requiring monitoring and communication expectations via D2L or other LMS)

Student Learner Outcome	Maps to Core Objective	Assessed via this Assignment
1.		
2.		
3.		
4.		
5.		

Academic Dishonesty: Any incident of academic dishonesty will be dealt with in accordance with college policy and the Student Handbook. Academic dishonesty – such as cheating on exams is an extremely serious offense and will result in a **grade of zero** on that exam and the student will be referred to the Office of Student Conduct for the appropriate disciplinary action.

College of the Mainland requires that students enrolled at COM be familiar with the Standards of Student Conduct, which can be found in the online Student Handbook. http://www.com.edu/student-services/student-handbook.php Students are expected to be familiar with and abide by the Student Code of Conduct. Any violations of the Code of Conduct will result in a referral to the Dean of Students and may result in dismissal from this class.

Plagiarism is using someone else's words or ideas and claiming them as your own.

Plagiarism is a very serious offense. Plagiarism includes paraphrasing someone

else's words without giving proper citation, copying directly from a website and pasting it into your paper, using someone else's words without quotation marks. Any assignment containing any plagiarized material will receive a **grade of zero** and the student will be referred to the Office of Student Conduct for the appropriate disciplinary action.

<mark>**Student Concerns:**</mark> If you have any questions or concerns about any aspect of this course, please contact me using the contact information previously provided. If, after discussing your concern with me, you continue to have questions, please contact Andrew Gregory, Department Chair, Business and Accounting at 409-933-8339 or agregory2@com.edu.

Course outline

Student Learner Outcomes:

Descriptive and inferential statistical techniques for business and economic decision-making. Topics include the collection, description, analysis, and summarization of data; probability; discrete and continuous random variables; the binomial and normal distributions; sampling distributions; tests of hypotheses; estimation and confidence intervals; linear regression; and correlation analysis.

Statistical software is used to analyze data throughout the course.

Upon successful completion of this course, students will:

1. Describe the random processes underlying statistical studies.
2. Calculate and use probability in solving business problems.
3. Compute descriptive statistics, construct graphs for data analysis, and interpret outcomes.
4. Compute and interpret measures of central tendency and dispersion.
5. Calculate expected values to evaluate multiple outcomes of a decision.
6. Describe, interpret, and apply discrete and continuous probability distributions.
7. Construct and interpret confidence intervals for means and proportions.
8. Formulate, perform, and interpret hypotheses tests (one and two population parameters).
9. Calculate, evaluate, and interpret simple linear correlation/regression.
10. Use statistical software to graph, compute, and analyze statistical data.

Prerequisites: MATH 1324 Mathematics for Business & Social Science Majors or MATH 1314 College Algebra; BCIS 1305 Business Computer Applications

General Education Core Objectives:

Students successfully completing this course will demonstrate competency in the following Core Objectives:

1. **Critical Thinking Skills** – to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
2. **Empirical and Quantitative Skills** – to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
3. **Teamwork**-to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal
4. **Communication Skills** - to include effective development, interpretation, and expression of ideas through written, oral, and visual communication.

Table Mapping SLO's, Core Objectives and Assignments:

Student Learner Outcome	Maps to Core Objectives	Assessed via this Assignment
Describe the random processes underlying statistical studies.		Chapter 1 Homework Chapter 19 Homework
Calculate and use probability in solving business problems.	**Critical Thinking**	Chapter 3 Project Chapter 4 Homework Chapter 4 Project
Compute descriptive statistics, construct graphs for data analysis, and interpret outcomes.	**Empirical and Quantitative Skills**	Chapter 2 Homework Chapter 2 Project Module 1 Discussion Board
Compute and interpret measures of central tendency and dispersion.	**Empirical and Quantitative Skills**	Chapter 3 Homework Chapter 3 Project

Calculate expected values to evaluate multiple outcomes of a decision.		Chapter 19 Homework Chapter 19 Project

Describe, interpret, and apply discrete and continuous probability distributions.	**Maps to Teamwork**	Chapter 5 Homework Chapter 5 Project Chapter 6 Homework **Chapter 6 Project**
Construct and interpret confidence intervals for means and proportions.	**Empirical and Quantitative Skills**	Chapter 7 Homework Chapter 7 Project Chapter 8 Homework Chapter 8 Project
Formulate, perform, and interpret hypotheses tests (one and two population parameters).		Chapter 9 Homework Chapter 9 Project Chapter 10 Homework Chapter 10 Project
Calculate, evaluate, and interpret simple linear correlation/regression.		Chapter 12 Homework Chapter 12 Project
Use statistical software to graph, compute, and analyze statistical data.	**Communication Skills**	Chapter 3 Project Chapter 5 Project Chapter 6 Project Chapter 12 Project Module 2,3,4 Discussion Board

Institutional Policies and Guidelines

Grade Appeal Process: Concerns about the accuracy of grades should first be discussed with the instructor. A request for a change of grade is a formal request and must be made within six months of the grade assignment. Directions for filing an appeal can be found in the student handbook Student_Handbook_2023-2024_v2.pdf. *An appeal will not be considered because of general dissatisfaction with a grade, penalty, or outcome of a course. Disagreement with the instructor's professional judgment of the quality of the student's work and performance is also not an admissible basis for a grade appeal.*

Academic Success & Support Services: College of the Mainland is committed to providing students the necessary support and tools for success in their college careers. Support is offered through our Tutoring Services, Library, Counseling, and through Student Services. Please discuss any concerns with your faculty or an advisor.

ADA Statement: Any student with a documented disability needing academic accommodations is requested to contact Kimberly Lachney at 409-933-8919 or klachney@com.edu. The Office of Services for Students with Disabilities is located in the Student Success Center.

Textbook Purchasing Statement: A student attending College of the Mainland is not under any obligation to purchase a textbook from the college-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

Withdrawal Policy: Students may withdraw from this course for any reason prior to the last eligible day for a "W" grade. Before withdrawing students should speak with the instructor and consult an advisor. Students are permitted to withdraw only six times during their college career by state law. The last date to withdraw from the 1st 8-week session is October 11. The last date to withdraw from the 16-week session is November 28. The last date to withdraw for the 2nd 8-week session is December 7.

FN Grading: The FN grade is issued in cases of *failure due to a lack of attendance*, as determined by the instructor. The FN grade may be issued for cases in which the student ceases or fails to attend class, submit assignments, or participate in required capacities, and for which the student has failed to withdraw. The issuing of the FN grade is at the discretion of the instructor. The last date of attendance should be documented for submission of an FN grade.

Early Alert Program: The Student Success Center at College of the Mainland has implemented an Early Alert Program because student success and retention are very important to us. I have been asked to refer students to the program throughout the semester if they are having difficulty completing assignments or have poor attendance. If you are referred to the Early Alert Program you will be contacted by someone in the Student Success Center who will schedule a meeting with you to see what assistance they can offer in order for you to meet your academic goals.

Resources to Help with Stress:
If you are experiencing stress or anxiety about your daily living needs including food, housing or just feel you could benefit from free resources to help you through a difficult time, please click here https://www.com.edu/community-resource-center/. College of the Mainland has partnered with free community resources to help you stay on track with your schoolwork, by addressing life issues that get in the way of doing your best in school. All services are private and confidential. You may also contact the Dean of Students office at deanofstudents@com.edu or communityresources@com.edu.