



BUSI 2305.201CL
Business Statistics
Spring 2024
6:00 – 8:50 p.m. Wednesday

Instructor Information: **Belinda Aaron**
baaron@com.edu
Main office #: 409-933-8311

Student hours and location:

Adjunct Faculty office ICB 305, TEAMS, D2L chat, or by email appointment

- Tuesdays 4:30pm - 5:30pm
- Wednesdays 5:00pm - 6:00pm

Required Textbook/Materials:

This course is inclusive of the digital textbook, which is made available in OpenStax and through the OpenStax link inside BrightSpace D2L. No access code is required for this course. Hardcopy textbooks may be new, used, or rented and can be purchased from multiple sources. This textbook is available through OpenStax at <http://cnx.org/content/col11776/1.33>.

Introductory Business Statistics, 2018
Holmes, Illowsky & Dean
OpenStax
ISBN-13: 978-1-947172-46-3

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.

Course Description: 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. Prerequisite: [MATH 1324](#) or [MATH 1314](#) and [BCIS 1305](#).

Course requirements:

The course is divided into thirteen chapters. For all tasks, please refer to the Schedule of Activities for due dates, point values, and other information.

Tests: Four tests will be covering the chapters in the textbook. Face-to-face students will be administered these tests in the classroom using BrightSpace D2L. 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 what 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.

Quizzes: There are 13 Chapter Quizzes. You have no time limit on these quizzes, and you are allowed three attempts. Your highest score will be automatically accepted as your grade for that quiz. These quizzes are designed to be a study aid to help you prepare for the tests.

Please refer to the grading rubric for additional guidance on expectations.

Determination of Course Grade/Detailed Grading Formula:

Assignments/Quizzes (13 chapters).....	600 points
Four Tests (100 points each, 4 tests).....	400 points
Total Possible Points.....	1000 points

The final grade will be based on the following scale:

- A = 90+% of the total points ≥ 900
- B = 80% - 89% of the total points 800-899
- C = 70% - 79% of the total points 700-799
- D = 60% - 69% of the total points 600-699
- F = less than 60% of the total points ≤ 599

Only one attempt will be allowed per examination/test. No retakes are allowed. Three attempts are allowed for each chapter quiz. The highest grade is automatically accepted.

Late Work, Make-Up, and Extra-Credit Policy:

Missed work immediately receives a “0”. *Students are responsible for contacting the instructor about making it up.* Make-up work will be determined on a case-by-case basis in a manner that the instructor deems fair and equitable to the entire class. **Late work normally receives a 20% penalty.**

If accepted, the final day for auto-graded late work will be the day prior to the last day of class.

If accepted, the final day for manually graded late work will be the Sunday prior to the last day of class.

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.

Extra Credit/Bonus Points:

40 bonus points (4% of final grade) are available for scheduling (online or face-to-face) and completing a 1-hour meeting with the Tutoring Center on APA format citing. Bonus points will

be added in the gradebook once the student forwards the confirmation email to the instructor, received from the Tutoring Center, confirming that a worthwhile and successful APA format learning session has taken place. Students may schedule more than one learning session, but the bonus points will only be applied once. APA format is required for the Ethics Case Study, Business Ownership presentation, and the Entrepreneurial assignment. Writing Resources, including appointment scheduling for Tutoring Center, are located at: <https://www.com.edu/tutoring/writing-resources.html>. APA format templates are available through the College of the Mainland Office 365 tools (<https://www.com.edu/sso>).

Any bonus points, make-up work, or other accommodations beyond those offered by COM are at the sole discretion of the instructor.

Graded Assignments/Feedback/Gradebook:

The following expectations apply to all Business/Accounting department courses regardless of modality. Auto graded exams and quizzes should be available for immediate review by the students. Manually graded assignments will be graded and returned within two weeks from the due date. Feedback, if any, will be listed within the attached rubric. Accepted late work will be returned in a timely manner as instructor's availability allows. **Students should monitor their overall grade within the D2L gradebook for current point totals.**

Attendance Policy:

Attendance in a classroom course is based on actual, physical classroom attendance which will be taken each class period. Students will receive credit for attending the class each week if present in the classroom. The last date of attendance will be the last date the student attended class in the physical classroom. Attendance will be tracked in the gradebook.

Communicating with your instructor: All electronic communication with the instructor must be through D2L or COM email. Due to FERPA restrictions, faculty cannot share any information about performance in the class through other electronic means (no external email). The virtual classroom tool, D2L chat, office phone, and face-to-face meetings are other means of communication. *Please allow the faculty 48 business hours to reply to COM email communications.*

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. <https://www.com.edu/student-services/student-handbook.html>. 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 may receive a grade of zero and the student will be referred to the Office of Student Conduct for the appropriate disciplinary action.

10 Types of Plagiarism - YouTube

<https://www.youtube.com/watch?v=EF5eFeJMplA>

How to Avoid Plagiarism in 5 Easy Steps - YouTube

<https://www.youtube.com/watch?v=WV2-cmi19sg>

What is Self Plagiarism - Research Prospect

<https://www.researchprospect.com/what-is-self-plagiarism/#:~:text=%20Types%20of%20Self%20Plagiarism%20%201%20Republishing.,from%20their%20previous%20work%20as%20they..%20More%20>

Student Concerns: 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, at 409-933-8339, agregory2@com.edu.

Classroom Conduct:

A positive learning environment depends upon mature behavior. Among other things, this means arriving for class on time, listening quietly and respectfully when someone else is speaking, and always using socially acceptable business language. Appropriate steps will be taken to ensure this positive learning environment.

General Education Core Objectives:

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

- Communication Skills – to include effective development, interpretation, and expression of ideas through written, oral, and visual communication.
- Critical Thinking Skills – to include creative thinking, innovation, inquiry, and analysis, evaluation, and synthesis of information.
- Empirical and Quantitative Skills – to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

Student Learner Outcome	Maps to Core Objective	Assessed via this Assignment
1. Describe the random processes underlying statistical studies.	<ul style="list-style-type: none">• Critical Thinking• Communication	Exam I Assignment Quiz
2. Calculate and use probability in solving business problems.	<ul style="list-style-type: none">• Critical Thinking• Empirical and Quantitative Skills	Exam I Assignment Quiz
3. Compute descriptive statistics, construct graphs for data analysis, and interpret outcomes.	<ul style="list-style-type: none">• Empirical and Quantitative Skills• Critical Thinking	Exam I Assignment Quiz
4. Compute and interpret measures of central tendency and dispersion.	<ul style="list-style-type: none">• Empirical and Quantitative Skills• Critical Thinking	Exam I Assignment Quiz
5. Calculate expected values to evaluate multiple outcomes of a decision.	<ul style="list-style-type: none">• Empirical and Quantitative Skills	Exam I Assignment Quiz
6. Describe, interpret, and apply discrete and continuous probability distributions.	<ul style="list-style-type: none">• Empirical and Quantitative Skills• Critical Thinking	Exam II Assignment Quiz
7. Construct and interpret confidence interval for means and populations.	<ul style="list-style-type: none">• Empirical and Quantitative Skills• Critical Thinking	Exam III Assignment Quiz
8. Formulate, perform, and interpret hypothesis tests (one and two population parameters).	<ul style="list-style-type: none">• Empirical and Quantitative Skills• Critical thinking	Exam III Assignment Quiz
9. Calculate, evaluate, and interpret simple linear correlation/regression.	<ul style="list-style-type: none">• Empirical and Quantitative Skills• Critical Thinking	Exam III Assignment Quiz
10. Use statistical software to graph, compute, and analyze statistical data.	<ul style="list-style-type: none">• Communication Skills• Critical Thinking	Assignment

COURSE OUTLINE:

Topics and Schedule of Activities

Week #	Date of Class	Topic	Chapter
1	Jan. 17	Intro to Syllabus & Course Sampling & Data	1
2	Jan. 24	Descriptive Statistics	2
3	Jan. 31	Descriptive Statistics Intro to Probability	2 3
4	Feb. 7	Probability	3
5	Feb. 14	Exam 1 Discrete Random Variables	1-3 4
6	Feb. 21	Continuous Random Variables Normal Distribution	5 6
7	Feb. 28	Normal Distribution Central Limit Theorem	6 7
8	Mar. 6	Exam 2 Confidence Intervals	5-7 8
	Mar. 13	Spring Break (no class)	
9	Mar. 20	Confidence Intervals Sample Sizes	8 8
10	Mar. 27	Hypothesis Testing – One Sample	9
11	Apr. 3	Hypothesis Testing	9-10
12	Apr. 10	Hypothesis Testing – Two Samples	10
13	Apr. 17	Exam 3 Chi-Squared Tests	8-10 11
14	Apr. 24	F Distribution & ANOVA	12
15	May 1	Linear Regression & Correlation	13
16	May 8	Final Exam	11-13

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. <https://build.com.edu/uploads/sitecontent/files/student-services/Student_Handbook_2019-2020v5.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.* https://build.com.edu/uploads/sitecontent/files/student-services/Student_Handbook_2019-2020v5.pdf

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 Holly Bankston at 409-933-8520 or hbankston@com.edu. The Office of Services for Students with Disabilities is located in the Student Success Center.

Counseling Statement: Any student needing counseling services is requested to please contact Holly Bankston in the student success center at 409-933-8520 or hbankston@com.edu. Counseling services are available on campus in the student center for free and students can also email counseling@com.edu to set up their appointment. Appointments are strongly encouraged; however, some concerns may be addressed on a walk-in basis.

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 March 1. The last date to withdraw from the 16-week session is April 24. The last date to withdraw for the 2nd 8-week session is May 3.

F_N Grading: The F_N grade is issued in cases of *failure due to a lack of attendance*, as determined by the instructor. The F_N 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 F_N grade is at the discretion of the instructor. The last date of attendance should be documented for submission of an F_N 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.