



**BUSI 2305.201CL**  
**Business Statistics**  
**Spring 2022**  
**6:00 – 7:20 p.m. Monday & Wednesday**



**Instructor Information:**     **David Knopp**  
**Office Location:** TVB 1475G (Continuing Education Suite)  
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409-933-8259

**Student hours and location:** 5:30 – 6:00 Mondays and Wednesdays  
I will also stay around after class if there are questions.

**Required Textbook/Materials:** *Statistics for Business & Economics, 14e, Anderson, Sweeney, Williams, et al.*

**COURSE IMPORTANCE:**

*“Statistical thinking will one day be as necessary for efficient citizenship as the ability to read and write.”* Those words by H.G. Wells support the enormous growth in data collection associated with the operations of a business, government, in the social sciences as well as the natural sciences has been truly remarkable over the past several decades. All of these various applications of statistics provide vivid evidence of the need to be able to evaluate data sets intelligently. Consequently, one can use this ability to make intelligent decisions, inferences, and generalizations. Therefore, the study of statistics is an essential preparation for a role in modern society.

**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;



<b>Course requirements:</b>	<b>Grading Scale:</b>	
Exam I..... 100 points	450-500 points	A
Exam II..... 100 points	400-449	B
Exam III ..... 100 points	350-399	C
Exam IV ..... 100 points	300-349	D
Assignments/Quizzes... <u>100 points</u>	0-299	F
<b>Total</b> <b>500 points</b>		

**Determination of Course Grade/Detailed Grading Formula:**  
Exams, Assignments and Quizzes

**Late Work, Make-Up, and Extra-Credit Policy:** Students will be allowed to make-up missed work (except quizzes). However, be aware that the make-up work tends to be much more difficult than the original work.

**Attendance Policy:**

**Why attendance matters.** When we talk about attendance, the focus is often on how a student's presence directly relates to the mastery of knowledge and skills. In fact, several studies have revealed that attendance positively affects both course grades and GPA and is the single strongest predictor of college grades. Indeed, the connection between attendance and student performance is well documented—but with important relationships to local context, prior performance, and motivation. Attendance matters not only because it enables the transfer of content knowledge within a particular course or student activity, but **attendance provides students with access to other, noncontent-specific contextual information, resources and relationships that can positively impact their knowledge and sense of belonging.** Lectures provide students with far more than content—they provide students with information and orientations that they may not be able to access outside of class. Attending class sessions helps students to stay on track, understand expectations, foster important peer social interactions and generally promote a sense of connectedness. Increasingly, attendance is being understood as a precursor and leading indicator for student success.

**Attendance improves performance.** Although it is not the only factor, research shows that class attendance is positively related to subsequent academic performance. In particular, attendance has been linked to higher performance on exams and to final course grades. Indeed, some researchers have found that class attendance has a stronger effect on test scores than tutorial attendance and that these effects are stronger for underperforming students. Most importantly, attendance is but

one, very controllable aspect of student behavior and self-regulation that can have an effect on performance.

**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. I prefer that you email me as opposed to using Blackboard to email me.

**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 using socially acceptable business language at all times. Appropriate steps will be taken to ensure this positive learning environment.

<b>Student Learner Outcome</b>	<b>Maps to Core Objective</b>	<b>Assessed via this Assignment</b>
1. Describe the random processes underlying statistical studies.		Exam I Assignment Quiz
2. Calculate and use probability in solving business problems.	Critical Thinking	Exam I Assignment Quiz
3. Compute descriptive statistics, construct graphs for data analysis, and interpret outcomes.	Empirical and Quantitative Skills	Exam I Assignment Quiz
4. Compute and interpret measures of central tendency and dispersion.	Empirical and Quantitative Skills	Exam I Assignment Quiz
5. Calculate expected values to evaluate multiple outcomes of a decision.	Empirical and Quantitative Skills	Exam I Assignment Quiz
6. Describe, interpret, and apply discrete and continuous probability distributions.	Empirical and Quantitative Skills	Exam II Assignment Quiz
7. Construct and interpret confidence interval for means and populations.	Empirical and Quantitative Skills	Exam III Assignment Quiz
8. Formulate, perform, and interpret hypothesis tests (one and two population parameters).	Empirical and Quantitative Skills	Exam III Assignment Quiz

9. Calculate, evaluate, and interpret simple linear correlation/regression.	Empirical and Quantitative Skills	Exam III Assignment Quiz
10. Use statistical software to graph, compute, and analyze statistical data.	Communication Skills	Assignment



### **Academic Dishonesty:**

Academic honesty is required in all academic endeavors. Violations of academic honesty include any instance of plagiarism, cheating, seeking credit for another's work, falsifying documents or academic records, or any other fraudulent classroom activity. Violations of academic honesty may result in 0 points on the assigned work, failure in the course, or expulsion from school.

### **Violations of Academic Honesty (DON'T DO IT!)**

Violations of academic honesty include, but are not limited to, the following activities:

1. Copying another person's work and claiming it as your own;
2. Using the work of a group of students when the assignment requires individual work;
3. Looking at or attempting to look at an examination before it is administered;
4. Using materials during an examination that are not permitted;
5. Allowing another student to take your exam for you;
6. Intentionally impeding the academic work of others;
7. Using any electronic device to transmit portions of questions or answers on an examination to other students;
8. Using any electronic device to improperly store information for an exam;
9. Knowingly furnishing false information to the College or its representatives.
10. Assisting other students in any of the acts listed above.

**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 Dr. Carla Boone, Instructional Dean at 409-933-8616 or at [cboone@com.edu](mailto:cboone@com.edu)

**Course outline:** See calendar pages below:

## 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](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](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](mailto: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](mailto:hbankston@com.edu). Counseling services are available on campus in the student center for free and students can also email [counseling@com.edu](mailto: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 1<sup>st</sup> 8-week session is March 2. The last date to withdraw from the 16-week session is April 25. The last date to withdraw for the 2<sup>nd</sup> 8-week session is May 4.

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

**COVID-19 Statement:** All students, faculty, and staff are expected to familiarize themselves with materials and information contained on the College of the Mainland's Coronavirus Information site at [www.com.edu/coronavirus](http://www.com.edu/coronavirus). In compliance with Governor Abbott's May 18 Executive Order, face coverings/masks will no longer be required on COM campus. Protocols and college signage are being updated. We will no longer enforce any COM protocol that requires face coverings. We continue to encourage all members of the COM community to distance when possible, use hygiene measures, and get vaccinated to protect against COVID-19. Please visit [com.edu/coronavirus](http://com.edu/coronavirus) for future updates.

#### COURSE OUTLINE:



# JANUARY 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
26	27	28	29	30	31	1 New Year's Day
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17 M L King Day	18	19 - Intro to Course - Types of Data (SLO 1)	20	21	22
23	24 - Descriptive Statistics SLO 3-5	25	26 - Descriptive Statistics SLO 3-5	27	28	29
30	31 - Descriptive Statistics SLO 3-5	1	2	3	4	5

# FEBRUARY 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	31	1 - Intro to Probability SLO 2	2	3	4	5
6	7 - Probability SLO 2	8	9 - Probability SLO 2	10	11	12
13	14 Valentine's Day - Exam I	15	16 - Binomial Distribution SLO 6	17	18	19
20	21 Presidents' Day - Binomial Distribution SLO 6	22	23 - Poisson Distribution SLO 6	24	25	26
27	28 - Normal Distribution SLO 6	1	2	3	4	5



# MARCH 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27	28	1	2 - Normal Distributions SLO 6	3	4	5
6	7 - Sampling Distributions SLO 6 - Central Limit Theorem	8	9 - Exam II	10	11	12
13	14 - Spring Break	15	16 - Spring Break	17	18	19
20	21 - Confidence Interval Estimation SLO 7	22	23 - Confidence Interval Estimation SLO 7	24	25	26
27	28 - Confidence Interval Estimation SLO 7	29	30 - Confidence Interval Estimation SLO 7 - Sample Sizes	31	1	2

# APRIL 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27	28	29	30	31	1	2
3	4 - Hypothesis Testing SLO 8	5	6 - Hypothesis Testing SLO 8	7	8	9
10	11 - Hypothesis Testing SLO 8	12	13 - Hypothesis Testing SLO 8	14	15 Good Friday	16
17 Easter Sunday	18 - Hypothesis Testing SLO 8	19	20 - Exam III	21	22	23
24	25 - Chi-Square Tests SLO 8	26	27 - Correlation and Regression SLO 9	28	29	30

# MAY 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2 - Correlation and Regression SLO 9	3	4 - Correlation and Regression SLO 9	5	6	7
8 Mother's Day	9 - Final Exam	10	11	12	13 Grades Submitted	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30 Memorial Day	31	1	2	3 National Donut Day	4