

South Plains College
BUSI 2305

Department: Mathematics, Engineering, and Computer Science

Course Number: BUSI 2305

Course Title: Business Statistics

Instructor: Alma Lopez

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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: Successful completion with a grade of 'C' or better in MATH 1324 or MATH 1314 and successful completion with a grade of 'C' or better in BCIS 1305.

Credit: 3 **Lecture:** 3 **Lab:** 1

Textbook and Supplies: No textbook will be required. Detailed notes and homework assignments will be provided on BlackBoard.

- Calculator: A calculator is required and you are required to bring your calculator to EVERY class. TI-83, TI-83+, TI-83+TI-84+ are preferred, but many others are also acceptable. Any other graphing calculator, you will need to read you manual to determine how to make the processes work. Cell phones and similar devices may NOT be used as calculators and no sharing of calculators is allowed. If you have any questions about your calculator, check with the instructor immediately.
- Working, reliable internet access
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Core Curriculum Objectives addressed:

- **Communications skills**—to include effective written, oral and visual communication
- **Critical thinking skills**—to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
- **Empirical and quantitative competency skills**—to manipulate and analyze numerical data or observable facts resulting in informed conclusions

Student Learning Outcomes: Upon completion of this course and receiving a passing grade, the student will be able to:

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.

Student Learning Outcomes Assessment: A pre- and post-test questions will be used to determine the extent of improvement that the students have gained during the semester

• **Homework:** Homework will be assigned at each class meeting. The homework is not a tool by which I torture you, but rather an opportunity for you to practice the skills presented in class which you will be responsible to demonstrate on exams. If you are interested in passing the class, you will need to do well on the exams. Some assignments you will need to complete using Excel. When grading these projects, neatness and presentation will count.

Late homework is not accepted.

• **Exams:** Exams must be taken during the normal class period. Students are not allowed to leave the examination room until they have turned in their test for grading. You are responsible for making arrangements with your instructor if you need to take an exam early. Late exams will not be given, no exceptions.

Grading Policy: Grading Scale:

90-100% A

80-89% B

70-79% C

60-69% D

Below 60% F

Exams (4 total) 20% each (total of 80%)

Project, HW and Excel Assignments 20%

Late assignments will not be accepted. Late is defined by this instructor as after class or after the assignment or exam has been done and turned in by your classmates.

• **Attendance Policy:** Attendance and effort are the most important activities for success in this course. Records of your attendance are maintained throughout the semester. Five (5) absences, *for any reason*, are allotted to the student for the semester. Tardies count as one-half (1/2) of an absence. Tardies will be applied for consistently being late to class, as deemed by the instructor and leaving class early. If this number is exceeded, the instructor has the right to drop you with a grade of F or an X, depending on their discretion.

Plagiarism violations include, but are not limited to, the following:

1. Turning in a paper that has been purchased, borrowed, or downloaded from another student, an online term paper site, or a mail order term paper mill;
2. Cutting and pasting together information from books, articles, other papers, or online sites without providing proper documentation;
3. Using direct quotations (three or more words) from a source without showing them to be direct quotations and citing them; or
4. Missing in-text citations.

Cheating violations include, but are not limited to, the following:

1. Obtaining an examination by stealing or collusion;
2. Discovering the content of an examination before it is given;
3. Using an unauthorized source of information (notes, textbook, text messaging, internet, apps) during an examination, quiz, or homework assignment;
4. Entering an office or building to obtain an unfair advantage;
5. Taking an examination for another;
6. Altering grade records;
7. Copying another's work during an examination or on a homework assignment;
8. Rewriting another student's work in Peer Editing so that the writing is no longer the original student's;
9. Taking pictures of a test, test answers, or someone else's paper.

Student Code of Conduct Policy: Any successful learning experience requires mutual respect on the part of the student and the instructor. Neither instructor nor student should be subject to others' behavior that is rude, disruptive, intimidating, aggressive, or demeaning. Student conduct that disrupts the learning process or is deemed disrespectful or threatening shall not be tolerated and may lead to disciplinary action and/or removal from class.

Diversity Statement: In this class, the teacher will establish and support an environment that values and nurtures individual and group differences and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.

Disability Statement: Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disability Services Office early in the semester so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Disability Services Office. For more information, call or visit the Disability Services Office at Levelland (Student Health & Wellness Office) 806-716-2577, Reese Center (Building 8) 806-716-4675, or Plainview Center (Main Office) 806-716-4302 or 806-296-9611.

Nondiscrimination Policy: South Plains College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Vice President for Student Affairs, South Plains College, 1401 College Avenue, Box 5, Levelland, TX 79336. Phone number 806-716-2360.

Title IX Pregnancy Accommodations Statement: If you are pregnant, or have given birth within six months, Under Title IX you have a right to reasonable accommodations to help continue your education. To activate accommodations you must submit a Title IX pregnancy accommodations request, along with specific medical documentation, to the Director of Health and Wellness. Once approved, notification will be sent to the student and instructors. It is the student's responsibility to work with the instructor to arrange accommodations. Contact the Director of Health and Wellness at 806-716-2362 or email cgilster@southplainscollege.edu for assistance.

Campus Concealed Carry: Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in South Plains College 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 South Plains College policy, license holders may not carry a concealed handgun in restricted locations. For a list of locations and Frequently Asked Questions, please refer to the Campus Carry page at: <http://www.southplainscollege.edu/campuscarry.php>
Pursuant to PC 46.035, the open carrying of handguns is prohibited on all South Plains College campuses. Report violations to the College Police Department at 806-716-2396 or 9-1-1.

SPC Bookstore Price Match Guarantee Policy: If you find a lower price on a textbook, the South Plains College bookstore will match that price. The difference will be given to the student on a bookstore gift certificate! The gift certificate can be spent on anything in the store.

If students have already purchased textbooks and then find a better price later, the South Plains College bookstore will price match through the first week of the semester. The student must have a copy of the receipt and the book has to be in stock at the competition at the time of the price match. The South Plains College bookstore will happily price match BN.com & books on Amazon noted as *ships from and sold by Amazon.com*. Online marketplaces such as *Other Sellers* on Amazon, Amazon's Warehouse Deals, *fulfilled by Amazon*, BN.com Marketplace, and peer-to-peer pricing are not eligible. They will price match the exact textbook, in the same edition and format, including all accompanying materials, like workbooks and CDs. A textbook is only eligible for price match if it is in stock on a competitor's website at time of the price match request. Additional membership discounts and offers cannot be applied to the student's refund. Price matching is only available on in-store purchases. Digital books, access codes sold via publisher sites, rentals and special orders are not eligible. Only one price match per title per customer is allowed.

Note: The instructor reserves the right to modify the course syllabus and policies, as well as notify students of any changes, at any point during the semester.

Class: BUSI 2305.001 TT 12:30-2:15 M112

Instructor: Alma F. Lopez

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Semester: Spring 2026

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Monday	Tuesday	Wednesday	Thursday	Friday
Jan 12	Jan 13 Syllabus, BB	Jan 14	Jan 15 Notes 1 Intro and Vocabulary	Jan 16
Jan 19 MLK Holiday	Jan 20 Notes 2 FD and Graphs	Jan 21	Jan 22 Chapter 1 Lab 1and 2	Jan 23
Jan 26	Jan 27 Excel 1	Jan 28	Jan 29 Notes 3 Central Tendency	Jan 30
Feb 2	Feb 3 Variation	Feb 4	Feb 5 Position, Review	Feb 6
Feb 9	Feb 10 Test 1	Feb 11	Feb 12 Notes 4 Correlation	Feb 13
Feb 16	Feb 17 Regression	Feb 18	Feb 19 Notes 5 Probability	Feb 20
Feb 23	Feb 24 Notes 6 Discrete Dist	Feb 25	Feb 26 Binomial Distribution	Feb 27
Mar 2	Mar 3 Review	Mar 4	Mar 5 Test 2	Mar 6
Mar 9	Mar 10 Notes 7 Confidence Intervals (mean)	Mar 11	Mar 12 CI prop and variance (or standard deviation)	Mar 13 SEE YOU IN A WEEK!
Mar 23	Mar 24 Notes 8 Standard Normal Distribution	Mar 25	Mar 26 Normal Distribution1	Mar 27
Mar 30	Mar 31 Normal Distribution2	Apr 1	Apr 2 Review	Apr 3 Easter Holiday
Apr 6	Apr 7 Test 3	Apr 8	Apr 9 Notes 9 Hypothesis Testing	Apr 10
Apr 13	Apr 14 Proportions and Variance	Apr 15	Apr 16 Notes 10 HT 2 Samples	Apr 17
Apr 20	Apr 21 Dif of Proportions	Apr 22	Apr 23 Dependent Samples	Apr 24
Apr 27	Apr 28 Final Review	Apr 29	Apr 30 LDTD	May 1
May 4	May 5	May 6	May 7 Final 10:15-12:15	May 8 Graduation