

Statistical Methods (MATH 1342)

Syllabus 2025 – 2026

Instructor: Danae Burton

Room: 105

Campus: Levelland High School

Email: danaeburton@levellandisd.net OR dburton@southplainscollege.edu

Course Description: Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing.

Student Learning Outcomes: Upon completion of this course, the student will be able to:

1. Explain the use of data collection and statistics as tools to reach reasonable conclusions.
2. Recognize, examine and interpret the basic principles of describing and presenting data.
3. Compute and interpret empirical and theoretical probabilities using the rules of probabilities and combinatorics.
4. Explain the role of probability in statistics.
5. Examine, analyze and compare various sampling distributions for both discrete and continuous random variables.
6. Describe and compute confidence intervals.
7. Solve linear regression and correlation problems.
8. Perform hypothesis testing using statistical methods.

Supplies: A 1-inch 3 ring binder is recommended for storing in class notes and graded homework assignments. Students will need a pen or pencil to write with. A TI-84 calculator is required for the course. If the student does not have one, a calculator will be assigned from the school.

Homework and Quizzes: Homework will be assigned after each section of notes and will be due **two class days** after the assigned day. A quiz will be given after 2-3 lessons and will cover the content in those lessons. The quizzes and homework assignments will be separate grades.

Late Work: Late assignments will be deducted 10 points per day late. Assignments turned in 10+ days after the due date will result in a 0. Extensions will be given for missed class days and extenuating circumstances.

Bell Ringers: Bell ringers will be done daily in the first five minutes of class. A question will be displayed on the board and students will answer the question on a bell ringer sheet. The bell ringer sheets will be turned in every Friday. Write ABSENT if you were gone on a day.

Exams: There will be an in class exam at the conclusion of every unit we complete in class. In place of a final exam, a final project will be assigned at the end of the course, demonstrating knowledge in one or more areas of study from the course.

Technology: This class will use Google Classroom for all notes and class videos. The code for our Google Classroom is _____. Grades will be uploaded to Skyward. We will not use Blackboard in this class.

Cell Phones: It is now the law in the state of Texas that students are not allowed any personal communication devices during the school day. Students are expected to have their cell phones turned off and put away at all times. If a student is using their phone at any time during class, it will be taken up and given to the office. The same goes with smart watches, ear buds, tablets, and personal laptops.

Classroom Expectations: Students are expected to:

- Be prepared to learn (have all supplies ready when class begins)
- Be kind to each other
- Be respectful to the instructor
- Have phone off and away
- Not bring drinks into the classroom

Grading Policy: A (90-100%), B (80-89%), C (70-79%), D (60-69%), F (0-59%).

The student's final grade will be calculated with the following category weights. All grades will be kept in Skyward.

Fall Gradebook

Category	Shows in Skyward As	Weight
Homework	Assignments	30%
Quizzes	Quizzes	20%
Bell Ringers	Daily Work	10%
Exams	Tests	40%

Spring Gradebook

Category	Shows in Skyward As	Weight
Homework	Assignments	20%
Quizzes	Quizzes	20%
Daily Work	Daily Work	5%
*Exams from Fall	Performance	20%
Spring Exams	Tests	25%
*Final Project	Projects	10%

*The gradebooks for Fall and Spring semester are separate in Skyward. This category will only be included in the Spring gradebook and will be used to calculate the final grade.

South Plains College Common Syllabus Statements

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 from the student and the instructor. Neither the instructor nor the student should be subject to others' rude, disruptive, intimidating, aggressive, or demeaning behavior. 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.

For information regarding official South Plains College statements about intellectual exchange, disabilities, non-discrimination, Title IX Pregnancy Accommodations, CARE Team, and Campus Concealed Carry, please visit <https://www.southplainscollege.edu/syllabusstatements/>.

South Plains College policies, return to campus plan, and protocols regarding COVID-19 can be found here: <https://www.southplainscollege.edu/emergency/covid19-faq.php>.

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.