South Plains College
Common Course Syllabus: MATH 1342
Revised July 2023

Department: Mathematics, Engineering, and Computer Science

Discipline: Mathematics

Course Number: MATH 1342

Course Title: Statistical Methods

Available Formats: conventional, hybrid, and internet

Campuses: Levelland, Downtown Center, Plainview Center, and Dual Credit

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

Prerequisite: Minimum score of 350 on the TSIA1, minimum score of 950 on the TSIA2, a diagnostic score of 6 on the TSIA2, TSI-exempt status, a successful completion with a grade of 'C' or better in MATH 0337, or successful completion of NCBM-0112.

Credit: 3 **Lecture:** 3 **Lab:** 0

Textbook (optional): *Elementary Statistics: A Step by Step Approach*, Bluman, 2018, 10th Edition, McGraw-Hill.

Supplies: Please see the instructor's course information sheet for specific supplies.

This course partially satisfies a Core Curriculum Requirement: Mathematics Foundational Component Area (020)

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. 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.

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

Course Evaluation: There will be departmental final exam questions given by all instructors.

Attendance/Student Engagement Policy: Attendance and engagement are the most critical activities for success in this course. The instructor maintains records of the student's attendance and submission of assignments throughout the semester. The student is expected to attend at least eighty percent (80%) of the **total** class meetings **and** submit at least eighty percent (80%) of the **total** class assignments to have the best chance of success. If the student fails to meet these minimum requirements, the instructor may remove the student from the class with an X, upon their discretion, to help the student from harming their GPA. If the student cannot receive an X, the instructor will assign an F.

Academic Integrity (Plagiarism and Cheating Policy): "Complete honesty is required of the student in the presentation of any and all phases of course work. This idea applies to quizzes of whatever length as well to final examinations, to daily reports, and to term papers" *(SPC General Catalog)*.

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 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, Campus Concealed Carry, and Artificial Intelligence, 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.

Student Identification Verification Pictures: In order to comply with institutional identity-verification procedures, students enrolled in courses at South Plains College must have a current photo available in the College's student information system. Approved photos are used solely for instructional, advising, and security purposes and are protected under applicable privacy laws. Students without a photo on file must update their record during the first week of class.

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.*

South Plains College
Math 1342 – Statistical Methods (3:3:0)
Course Syllabus
Spring 2026

Instructor: Diane Eagle
Office: B015, Lubbock Downtown Center (basement)
Phone: 806-716-2736
E-mail: deagle@southplainscollege.edu

Office Hours:

Monday	Tuesday	Wednesday	Thursday	Friday
11:00 – 12:30 2:45 – 3:15	2:45 – 3:45	11:00 – 12:30 2:45 – 3:15	2:45 – 3:45	10:00 – 12:00

Course Format: This class utilizes a flipped classroom model. Lecture videos and associated course materials will be posted online via Blackboard and must be reviewed PRIOR to attending class. Classroom time is reserved primarily for face-to-face discussion of homework problems and/or completion of in-class lab assignments. Arrive on time and come prepared to take notes every day. All exams will be taken in the classroom.

Supplies: Pencils, paper, straightedge, graph paper, a large 3-ring binder, and a scientific calculator (a graphing calculator is not necessary.) Calculators on cell phones or other electronic devices or apps will **NOT** be allowed during tests or in-class assignments. Suitable face coverings are optional, but not required. (Refer to the link posted above regarding SPC's COVID-19 protocols.)

Technology Requirements: Students need to have reliable access to the Internet and email. Ability to view lecture videos and open and/or print documents is required.

Email: Your SPC email account will be used for all correspondence and notifications. When emailing me, be sure to include your name, class, and section number. Do NOT use the "course messages" link in Blackboard as I rarely check it. Provide problem/page numbers or a screen shot if applicable.

Course Evaluation: Your final grade will be determined by the average of online quizzes (20%) three tests (60%) and the comprehensive final exam (20%.) The number of points earned will follow the grading scale below:

Grading Scale:

A	90% to 100%
B	80% to 89%
C	70% to 79%
D	60% to 69%
F	Below 60%

Exams: Dates for the 3 major tests and comprehensive final exam are listed on the calendar. Exams will be conducted face-to-face in class. If you miss one of the 3 major tests, your score on the final exam will replace the missing grade. A second missed test will be averaged as a zero. If no tests were missed, the final exam grade (if higher) will replace the lowest major exam grade; however, if the final exam is lower than any of the 3 major exam grades, then it will only count once in the course average.

Homework and Lab Assignments: Problems are assigned from each section covered, and time will be available during class to work problems and ask questions. Consistently working problems reinforces the skills and concepts presented and is essential for success in this course. Demonstrate relevant steps and complete work for each problem; do not submit "answer sheets" or solutions copied from apps. Completed homework and lab assignments will be self-assessed by the student during class. All class notes, homework, lab assignments, and exams are to be organized in the student's 3-ring binder. This binder will be evaluated at the end of the semester for extra credit.

Online Quizzes: After viewing each lecture video, students will complete a short, 3-5 question, comprehension quiz in Blackboard. Again, solutions obtained using apps are not acceptable! Please note due dates as late submissions will not be accepted. Online quizzes account for 20% of your overall grade.

Bonus Points: Students will have the opportunity to make corrections on **one** test (final exam not included) of their choosing, to recoup up to 50% of the points missed. Corrections are due the following class period after the test is graded and handed back. Test corrections must have complete and correct solutions and/or explanations and be turned in on a separate sheet of paper with the exam.

Additional Resources: Blackboard is the online management system used for this course. In addition to the grade book, all course materials, including the syllabus, calendar, lecture videos, assignments, handouts, test reviews, and additional resources can be accessed through Blackboard. Handouts accompanying the lecture videos are available to download and complete while viewing the lecture videos. **Be sure to check Blackboard and your SPC email account regularly for class announcements and updates.**

SPC Tutors: Tutoring is FREE for all currently enrolled students. Make an appointment or drop-in for help at any SPC location or online! Visit the link below to learn how to book an appointment, view the tutoring schedule, and view tutoring locations.
http://www.southplainscollege.edu/explorepprograms/artsandsciences/teacheredtutoring.php

Brainfuse: Students also have 180 minutes of free online tutoring with Brainfuse each week. Hours reset every Monday morning. Sign into Blackboard and then click the Brainfuse link to be automatically logged in for free tutoring. You may access Brainfuse tutors during the following times: Monday – Thursday: 8 pm – 8 am and weekends from 6pm Friday – 8am Monday morning.
For questions regarding tutoring, please email tutoring@southplainscollege.edu or call 806-716-2241.

Attendance Policy: Refer to page 2 above. Students who arrive to class late, leave early, sleep during class, or habitually access their cell phones during class, may be counted absent. Whenever absences become excessive and, in the instructor's opinion, minimum course objectives cannot be met due to absences, the student may be withdrawn from the course. Students wishing to drop this class must see the registrar by Thursday, April 30, 2026, to officially withdraw and receive a grade of W.

Classroom Civility: Students are expected to be respectful of their fellow classmates and maintain a classroom environment that is conducive to learning. Please model safe behaviors to protect the health of yourself and others. Silence cell phones and other electronic devices **before** entering the classroom. While usage of cell phones for class-related activities, such as viewing lessons or scanning and uploading completed assignments IS permissible, **usage unrelated to class will NOT be tolerated.** You will receive ONE verbal warning, after which you will be asked to leave and receive a zero for that day's assignment**.** Refrain from using offensive language, talking loudly or off-topic, working on outside assignments, chewing tobacco products, or otherwise being disruptive in class. Food and/or drinks are NOT allowed in the classroom.

Academic Honesty: Students are expected to uphold the ideas of academic honesty. Refer to page 2 for explanations of what constitutes academic dishonesty and plagiarism. In the case of exams or submitted assignments, the instructor reserves the right to ask a student to explain and/or demonstrate their work in person. **Use of a non-approved calculator, cell phone, or other electronic devices or apps during an in-class assignment or exam will result in a grade of zero. Leaving the classroom during an exam will not be permitted.** Students who do not follow the academic honesty policy will receive a grade of zero for the assignment or exam and may be dropped from the course with an F, or face possible suspension from the college.

Calendar: The following schedule outlines each week's topics and test dates. Lecture videos and associated course materials and assignments will be posted online for each section and are to be reviewed/attempted (not necessarily completed, however) PRIOR to attending class. This schedule is tentative and subject to revision. Any changes will be announced in class as well as updated via Blackboard announcements.

MATH1342.605 (TR) – SPRING 2026

Week	Date	Topics covered	Date	Topics covered
1	Jan. 13	Syllabus, Lying with Statistics video	Jan. 15	Review Chapter 1
2	Jan. 20	Review section 2.1	Jan. 22	Review section 2.2
3	Jan. 27	Review section 2.3	Jan. 29	Review section 3.1
4	Feb. 3	Review section 3.2	Feb. 5	Review sections 3.3, 3.4
5	Feb. 10	Review section 4.1	Feb. 12	**TEST 1 – chapters 1, 2, 3**
6	Feb. 17	Review section 4.2	Feb. 19	Review section 4.3
7	Feb. 24	Review sections 4.4, 4.5	Feb. 26	Review sections 5.1, 5.2
8	Mar. 3	Review section 5.3	Mar. 5	Review section 6.1
9	Mar. 10	Review section 6.2	Mar. 12	**TEST 2 – chapters 4, 5, 6.1**
Spring Break March 16 – March 20				
10	Mar. 24	Review section 6.3	Mar. 26	Review sections 7.1, 7.2
11	Mar. 31	Review section 7.3	Apr. 2	Review section 8.1
12	Apr. 7	Review sections 8.2, 8.3	Apr. 9	Review section 8.4
13	Apr. 14	Review section 9.1	Apr. 16	**TEST 3 – chapters 6.2, 6.3, 7, 8**
14	Apr. 21	Review section 9.2	Apr. 23	Review section 10.1
15	Apr. 28	Review section 10.2	Apr. 30	**REVIEW**
16	May 5	**FINAL EXAM 10:15 – 12:15**	May 7	**NO CLASS**

*****Last day to drop is Thursday, April 30, 2026*****