SOUTH PLAINS COLLEGE
MATHEMATICS, ENGINEERING & COMPUTER SCIENCE

Statistical Methods
Math 1342 – 004
Spring 2026

Instructor Information:

Instructor: Jennifer Brazil **Office:** M109 **Telephone:** (806) 716 – 2645

Email: jbrazil@southplainscollege.edu **Class Times:** Monday & Wednesday from 1:00 – 2:15 PM

Office Hours: As listed below or by appointment. I will be in my office on the Levelland campus during face to face (F2F) times listed below if you wish to meet in person. I will be online (via teams) during office hours or by appointment. Feel free to stop by anytime. If I'm in my office, you're welcome to come in.

If you need to schedule a time to meet outside of the office hours below, please email me to set up a time.

Day	Times	Location
Monday - Thursday	8:15 AM – 9:15 AM 2:15 PM – 3:00 PM	M109 (Lev) or Teams
Friday	9:00 AM – 11:00 AM	M109 (Lev) or Teams

Email Correspondence: All email correspondence should come from your SPC email address. Please give me up to 24 hours to respond via email. If you email about a specific math question, please attach a picture of the question and the work that you have tried.

Disclaimer: The instructor reserves the right to alter any class policies/dates as deemed necessary by the instructor. If there are any changes, they will be announced **over Blackboard and via your SPC email.**

Showing Work: To receive full credit for an assignment, you must show all the work that leads to your answers. The work must be legible, make sense, and be easy to follow. All work and answers should be handwritten. No calculators or cell phones are to be used to get answers on coursework. Correct answers without mathematically accurate work may not receive full credit.

Course Supplies:

- Required: Notebook paper on which to complete the required work for your assignments
- Required: Printed Notes. A blank copy of the notes will be posted on Blackboard. You should print them off and fill them out as we learning in class. Please note that the SPC campus computer labs are available if you want to print your notes off there. You could also print them off at most public libraries, but please note that it usually requires you to pay a small fee per page. I recommend keeping all of your notes in order in a notebook so they are easily accessible.
- Required: A computer or laptop, reliable internet service, a way to print documents, and a way to scan and upload documents. Computer access available on SPC campus.
- **Required: A TI83, TI84, or TI-Nspire graphing calculator (Recommended TI 84)**
- Recommended: (2 – 3 inches) 3-ring binder with dividers to organize all notes and homework.

Attendance: Course attendance will be taken. Per South Plains College math department policy, you will be administratively dropped from the course if your number of missed submissions goes over 20% of all submissions.

Computer Issues: If your personal computer/internet become "disabled," please remember that it is your responsibility to have a backup plan. Your assignments for this class will have a window of time in which the assignment must be completed. If you wait until the last day to try and complete your assignment and you encounter computer/internet issues, the deadline for completion will NOT be extended. You must plan ahead in order to complete your work under all possible conditions. Early submissions are welcome and encouraged.

Weekly Quizzes:

- There will be a weekly quiz most weeks.
- Quizzes are located in the weekly blackboard folder along with the homework assignments.
- Each quiz may be taken three times with the highest score being recorded in the gradebook.

Homework/Lessons:

- Each lesson will have a corresponding set of homework problems. Make sure to practice showing your work and justifying your answers in preparation for quizzes and exams. Homework is graded on accuracy. If a student feels that their homework answer was graded incorrectly, reach out to the teacher.
- Homework problems have unlimited attempts. Complete the problems as many times as need to feel confident in the material.

Exams:

- There will be four regular exams this semester. Each exam will cover one unit.
- Work Requirement: Correct answers without mathematically accurate work will not receive full credit.
- Calculators and formula sheets are allowed for exams.

Final Exam:

- The final is comprehensive.
- Work Requirement: Correct answers without mathematically accurate work will not receive full credit.
- Calculators and formula sheets are allowed for exams.
- The final exam can replace ONE regular exam from the semester, if the final exam is a higher grade.

Make-ups:

- Each student will be given THREE late passes to be used on homework/quizzes. Additional late passes will be given at the discretion of the instructor and are NOT guaranteed.
- If a student misses an exam, the student must notify the instructor IMMEDIATELY to find out if other arrangements can be made. Once exam grades have been released, any make-up exam is no longer possible.
- Make-up work is given at the discretion of the instructor.

Missed Exams:

- In SOME instances, an exam may be made up with PRIOR approval by the instructor. In the case an exam make-up is allowed, the exam must be made up prior to the next class.
- One missed exam, for any reason, will have the comprehensive final exam replace the zero earned. The second missed exam will be a zero.
- If the Final Exam is not attempted, a grade of F will be reported for the student's grade regardless of the grade before the Final Exam was administered.

Grading Formula:

Completing all submissions and having a strong work ethic are important but do not guarantee a passing grade. However, these two things do increase the likelihood of passing. The final responsibility for learning lies with the student. The final letter grade for this course will be based on the assignments and percentages listed.

Homework	20%
Weekly Quizzes	15%
Tests (4)	40%
Final Exam	25%

Final Grade Determination: A 90-100 B 80-89 C 70-79 D 60-69 F 59 or below

Reviewing Grades on Blackboard: After I grade your assignments, you should be able to log into Blackboard to see your grade.

Academic Dishonesty:
Academic dishonesty will not be tolerated. Please see the list of things that constitute plagiarism and cheating in the general Math 1342 syllabus. If you violate anything on those lists, you will receive a zero on the assignment and could be subject to other actions outlined in the South Plains College Student Code of Conduct. Please note that these actions could include failing the course and being expelled from the college.

Resources:

- Blackboard! The course syllabus, calendar, gradebook, notes handouts/videos, and assignments will be available on Blackboard.
- I am available to help you! Feel free to email me at jbrazil@southplainscollege.edu . When you email me, please give me up to 24 hours to respond. If you email about a specific math question, please attach a picture of the question and the work that you have tried.
- Peer tutoring is available via SPC and is required for this course Visit the link below to learn more about SPC tutoring: http://www.southplainscollege.edu/exploreprograms/artsandsciences/teacheredtutoring.php

Withdrawal Policy: As required by Texas Education Code Section 51.907, all new students who enroll in a Texas public institution of higher education for the first time beginning with the 2007 fall semester and thereafter, are limited to six course drops throughout their entire undergraduate career. All course drops, including those initiated by students or faculty and any course a transfer student has dropped at another institution, automatically count toward the limit. After six grades of W are received, students must receive grades of A, B, C, D, or F in all courses. There are other exemptions from the six-drop limit and students should consult with a Counselor/Educational Planner before they drop courses to determine these exemptions. Students receiving financial aid must get in touch with the Financial Aid Office before withdrawing from a course. It is the student's responsibility to drop. Excessive absences will result in an administrative withdrawal with a Grade of X or F. If you plan to withdraw, please consult with the instructor immediately.

South Plains College
Common Course Syllabus: MATH 1342

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.
Textbook: No textbook required, course materials will be provided on Blackboard

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 Assessment: Comprehensive Final Exam

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.

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.

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, nondiscrimination, 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.

Statistical Methods Outline

	Tuesday	Thursday	**Sunday (Due Date)**
1	**Jan. 13th** Welcome, Class Expectations	**15th** Lesson 1.1: Overview of Statistics and Data Classification	**18th** **HW 1.1** **Syllabus Quiz**
2	**20th** Lesson 1.2: Frequency Distributions and Graphical Displays of Data	**22nd** Lesson 1.3: Measures of Central Tendency	**25th** **HW 1.2, HW 1.3** **Quiz 1 (1.1-1.3)**
3	**27th** Lesson 1.4: Measure of Variation	**29th** Lesson 1.5: Measures of Position	**Feb. 1st** **HW 1.4, HW 1.5** **Quiz 2 (1.4,1.5)**
4	**3rd** Lesson 1.6: Correlation and Linear Regression	**5th** Review	**8th** **HW 1.6** Prepare for Exam
5	**10th** **Exam 1**	**12th** Lesson 2.1: Introduction to Probability	**15th** **HW 2.1** **Quiz 3 (2.1)**
6	**17th** Lesson 2.2: Additional Rule of Probability	**19th** Lesson 2.3: Multiplication Rule of Probability	**22nd** **HW 2.2, HW 2.3,** **Quiz 4 (2.2,2.3)**
7	**24th** Lesson 2.4: Additional Topics in Probability and Counting	**26th** Lesson 2.5: Probability Distributions	**Mar. 1st** **HW 2.4, HW 2.5** **Quiz 5 (2.4,2.5)**
8	**3rd** Lesson 2.6: Binomial Distribution	**5th** Review	**8th** **HW 2.6** Prepare for Exam
9	**10th** **Exam 2**	**12th** Lesson 3.1: Introduction to the Normal Distribution	**15th** **HW 3.1** **Quiz 6 (3.1)**
10	**24th** Lesson 3.2: Finding Values of the Normal Random Variable	**26th** Lesson 3.3: Confidence Intervals for Population Means	**29th** **HW 3.2, HW 3.3,** **Quiz 7 (3.2,3.3)**
11	**31st** Lesson 3.4: Confidence Intervals for Proportions and Minimum Sample Size	**Apr. 2nd** Review	**5th** **HW 3.4** Prepare for Exam
12	**7th** **Exam 3**	**9th** Lesson 4.1: Introduction to Hypothesis Testing	**12th** **HW 4.1** **Quiz 8 (4.1)**
13	**14th** Lesson 4.2: Hypothesis Testing for Population Means	**16th** Lesson 4.3: Hypothesis Testing for Population Proportion	**19th** **HW 4.2, HW 4.3** **Quiz 9 (4.2,4.3)**
14	**21st** Lesson 4.4: Hypothesis Testing for Two Population Means	**23rd** Review	**26th** **HW 4.4** Prepare for Exam
15	**28th** **Exam 4**	**30th** Review for Final	**May 3rd** Prepare for Final
16	**5th** **Comprehensive Final Exam** **10:15AM – 12:15PM**	**7th** **No class**	

Note: *This schedule is tentative and may be altered as deemed necessary by the instructor. If there are any changes, they will be announced in class and/or via a Blackboard announcement.*