**South Plains College**
**Common Course Syllabus: MATH 1342**
**Revised March 2025**

**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:** *Elementary Statistics: Picturing the World*, Farber and Larson, 2023, 8th Edition, Pearson. ISBN-13: 9780137493227.

**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:** A 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.

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, 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.

**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 must 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.

**MATH 1342—Statistical Methods**
**South Plains College, Levelland campus**
**Spring Semester 2026**

**Sections:**    002—MW, 1:00 – 2:15 PM

**Rooms:**    Levelland MECS Bldg., Room 108

**Instructor**:    Mr. Robert E. Plant, II, M.S.

**Office Info**:    Room—Levelland Math Bldg. 116B
Phone—(806) 716-2734
Hours—the following table will display the regular office hours.

| Monday (LV) | Tuesday (LB) | Wednesday (LV) | Thursday (LB) | Friday (Flex) |
|---|---|---|---|---|
| *14:30-15:45* | *16:00-17:15* | *14:30-15:45* | *16:00-17:15* | *9:00 – 12:00* |
| ***OR BY APPOINTMENT:*** Virtual Office Hours (LV: Levelland; LB: Lubbock) | | | | |

**E-mail**:    rplant@southplainscollege.edu

**O.P.I.**\*:    This syllabus is © 2026 by Mr. Robert E. Plant, II
\* O.P. I. means "other pertinent information," or in layman terms, "something else that you need to know."

**Tutoring:**    Tutoring is FREE for all currently enrolled students. Make an appointment or drop-in for help at any SPC location or online! Visit the SPC Tutoring Webpage to learn more about how to book an appointment, view the tutoring schedule, and view tutoring locations.

You also have access to FREE tutoring with Brainfuse after normal tutoring hours each week. Log into Blackboard Ultra, then look for it in the "Supplemental Links" module.

You may access Brainfuse during the following times:
**Monday – Thursday: 8 PM to 8 AM (next day) OR 6 PM Friday evening to 8 AM Monday morning**

For questions regarding tutoring, please email SPC Tutoring or call 806-716-2538.

**"If you DO something enough and WILL trust the process, then you CAN be successful."**

***—Instructor***

## Expectations of the Student for the Instructor

The student is within all rights to expect that the instructor do the following:
- Show up, as scheduled, and mutually agreed upon, to teach all information pertaining to the course.
- Use the entirety of the lecture period, physical or virtual, as well as the allotted lab time for this course.
- Provide notice of any schedule changes.
- Maximize the time allotted for this course by assessing student aptitude of covered information when time permits.
- Present the material in a manner that can generally be understood by the class at large.
- Be accessible to those who need assistance outside of the classroom setting, by way of e-mail or in person, during office hours or reasonably scheduled appointment times.
- Respond to all contact attempts in a timely and discretionary manner.
- Hold to the schedule for any assignment(s) given over the semester unless removed or adjusted.
- Uphold the policies of the college as it pertains to student welfare in the course.
- Not make any exceptions regarding the dismissal of any student from the course for reasons listed herein.
- Allow each student the opportunity to discuss the material presented during the lecture period.
- Provide examinations, based on the information discussed in class, that contain problems which use solving methods *like* those assigned from sections pertaining to the exam.

## Expectations of the Instructor for the Student

The instructor is within all rights to expect that the student does the following:
- Show up, as scheduled and mutually agreed upon, to receive and learn all information pertinent to the course and be mindful of any schedule changes.
- Take advantage of *all* available resources, which include the Office Hours and the Tutoring Lab, as presented in the syllabus.
- Be respectful of your peers and the instructor as stated in the SPC Student Handbook.
  - In the collegiate setting, all students are considered adults and are expected to uphold conduct worthy of such consideration.
  - Failure to do so provides enough grounds for the student to be dismissed from the course.

- Be willing to work with—**BUT NOT DO WORK FOR**—fellow classmates.
  - Networking is an essential tool both in the workforce and in the classroom; furthermore, the greater the numbers of minds there are involved, the less mental labor is required for everyone.
  - Virtual networking will very much be a necessity. Use Skype, Teams, or other virtual conferencing interfaces to interact with each other (when permitted).
  - No one is an island… *except on the exams!*
- Be mindful of the classroom setting and the roles therein.
  - While student tuition is vital to the well-being of this academic institution, this does NOT warrant the concession of any instructor to you in a manner that compromises the integrity of the classroom setting and that of the institution itself.
- ***Write all graded work legibly. <u>All</u> work not understood by me will not be accepted by me and will cause you to receive a grade of zero percent (0%) for the work in question.***
- Turn all electronic devices *off* that have no use in the face-to-face classroom setting.
  - This means all music players, cellular telephones (or cell phones), etc.
  - If a cell phone must be on (family emergencies only), then
    - The instructor must be notified *before* the beginning of the period and
    - The phone must be put on vibrate mode and placed **screen down** on your desk.
  - ***Tablets and digital notebooks during face-to-face lecture are permitted***.
  - If a disallowed device is in use during an exam, then the grade for said exam will be zero percent (0%).
- Bring all materials needed for the course and refrain from bringing anything that is not needed. This allows you to pay attention to the subject matter only and shows me that you are prepared to learn.
- Obtain all missed information and assignments from a fellow classmate.
  - In the spirit of holding to all course objectives in a manner that warrants personal accountability, I will not relay such information unless necessary.
  - This means that *if there is no documented reason for missing the information, then find your peers, not me*.
- READ THE SYLLABUS!!!
  - If you struggle with reading, then it is *never too late to learn*.
  - If you lose the copy that I give you, then you will have to obtain another copy from Blackboard.
  - There are *no exceptions* to this rule!

**<u>Required & Disallowed Materials for the Course</u>**

The following materials are required of the student for this course:
- Writing Utensil—This will be required for all work that is to be graded by the instructor
  - Pencil is *strongly recommended*
  - Work that is deemed to be illegible will not be graded
  - Label all assignments by Section and Lecture Date
  - Label all problems Exercise Number
- Ruler—This will be required for the Graphing portion of this course
- Multi-subject Notebook (with at least 5 sections)—This is highly recommended for the student to keep his/her notes; any writing utensil may be used to take notes, and *the notebook is to be used in this course only*
- Web Camera—This is required for any quizzes and exams that may be proctored electronically (via Honorlock)
- **Graphing calculators up to TI-84 quality—**non-graphing calculators are encouraged for students who will be STEM majors; *graphing calculators cannot store internet data or do symbolic algebra*
- Syllabus Acknowledgment of Receipt—The filling in, signing, scanning, and submitting of said form is prerequisite for any accommodations stated in the Syllabus to be recognized for the student; nonetheless, the student is still expected to uphold any responsibilities that are stated herein
- Cell phone *scanning app*—These will be used to scan your written work and to save it as a *single PDF file*; otherwise, *cell phones must be put face down on the writing surface <u>during</u> online assessments*

The following materials and situational items are disallowed in this course:
- **Online math answering programs—**Programs that provide "solutions" to unworked problems, such as Chegg, MathWay, PhotoMath, and Wolfram Alpha are strictly prohibited from use in this course
  - First Offense—50% penalty on assignment
  - Second Offense—Student may be dropped from the course
- **Graphing calculators of higher quality than the TI-84**—As most professional examinations have disallowed the use of graphing calculators, the instructor encourages students in such majors to not use a graphing calculator; cell phone calculator usage is also disallowed; TI-89, TI-92, and TI-$n$Spire calculators are strictly prohibited; repeated violation will result in *student dismissal*
- Notes on exams—Use thereof *by any means, including the cell phone,* in said circumstance that is not permitted by the instructor will result in the immediate dismissal of the student from the course

If the Student has any concerns pertaining to the information above on this page, then the student is to contact the instructor by the means stated in this document. The instructor cannot be expected to address any such concerns if no communication is had with the student.

## Grading Policy*

| | | | |
|---|---|---|---|
| 90% or above | A | In-Section Exercises: 28% (28 @ 1%) | |
| 80-89% | B | Weekly Homework: 12% (12 @ 1%) | |
| 70-79% | C | In-class examinations: 40% (4 @ 10%) | |
| 60-69% | D | Final examination: 20% | |
| 59% or below | F | [Bonus for Printed Notes: TBD] | |

*All grades are rounded from the first decimal. Borderline grades (within 2% of the minimum) will be handled by the Instructor based on the Student's compliance with the Syllabus. Upon the submission of grades at the end of the semester, **ALL GRADES ARE FINAL!**

## Holiday/Travel Statement

If you the student have pre-existing plans to either travel out of the area during scheduled class times, you must inform me by **NO LATER THAN Monday, February 2, 2026**. Failure to do so will result in the forfeiture of any assignments that will come into question during your dates of absence.

## Religious Holy Days

In accordance with Section 51.911, Texas Education Code, South Plains College will allow a student who is absent from class for the observance of a religious holy day to take an examination or complete an assignment scheduled for that day within seven (7) calendar days after the absence. Students are required to file a written notification of absence with each instructor within the **first fifteen (15) days of the semester** in which the absence will occur. Forms for this purpose are available in the Student Services Office along with instructions and procedures. "Religious holy days" means a holy day observed by a religion whose place of worship is exempt from property taxation under Section 11.20, Tax Code.
(Copied from current South Plains College Catalog)

## Midterm Examination Policy

On the day of the exam, be sure to *take care of your "bathroom business" BEFORE STARTING*; also, *empty ALL of your pockets* and *turn all smart devices OFF*.
1st Offense: Warning and 20% Penalty
2nd Offense: 0% on the Exam in question

## Final Examination Policy

There will be a final examination for this course. *All students are required to take this exam at the appointed time listed herein.* Also, due to the insurance of outcomes assessment at the end of any semester, there will be no guarantee of exemption from

the final exam for this course. ***If any exam is missed, then the final will replace ONE such exam upon notification <u>before</u> the exam is scheduled.*** All other exams missed will receive a grade of 0% or be handled at the Instructor's discretion. **If the final exam is missed by any student required to take such, the student will receive a 0% for the final and an "F" for the course!**

## <u>Sexual Misconduct Confidentiality Statement</u>

As a faculty member, I am deeply invested in the well-being of each student I teach. I am here to assist you with your work in this course. If you come to me with other non-course-related concerns, I will do my best to help. It is important for you to know, however, that all faculty members are mandated reporters of any incidents of sexual misconduct. That means that I cannot keep information about sexual misconduct confidential if you share that information with me.

The Director of Health & Wellness can advise you confidentially as can any Counselor in the Health & Wellness Center. They can also help you access other resources on campus and in the local community. You can reach the Director by phone at 716-2563 or by going to the Health & Wellness Center. You can schedule an appointment with a Counselor by calling 716-2529.

## <u>Key SPC Dates</u>

January 19 – MLK, Jr. Holiday
January 28 – 12th Class Day
March 16-20 – Spring Break
April 3 – Easter Holiday
April 30 – Last Day to Withdraw from Classes
May 4-8 – Finals Week

**Mr. Robert E. Plant, II**
**Spring 2026 Lecture Calendar**
**MATH 1342**

| Week | Monday | Wednesday |
|---|---|---|
| 1 (1/12 to 1/16) | Introduction; 1.1 | 1.2 & 1.4 |
| 2 (1/19 to 1/23) | **MLK, Jr. Holiday** | 2.1 & 2.2 |
| 3 (1/26 to 1/30) | 3.1, 3.2 | 3.4 |
| 4 (2/2 to 2/6) | **Exam 1** | 10.1 |
| 5 (2/9 to 2/13) | 10.2 | 4.1 |
| 6 (2/16 to 2/20) | 4.2 & 4.3 | Follow-up |
| 7 (2/23 to 2/27) | 5.1, 5.2 & 5.3 | Follow-up |
| 8 (3/2 to 3/6) | **Exam 2** | 6.1 |
| 9 (3/9 to 3/13) | 6.2 | 6.3 |
| 3/16 to 3/20 | **SPRING BREAK – NO CLASS** | |
| 10 (3/23 to 3/27) | 7.1, 7.2 & 7.3 | Follow-up |
| 11 (3/30 to 4/3) | **Exam 3** | 8.1 |
| 12 (4/6 to 4/10) | 8.2 | 8.3 |
| 13 (4/13 to 4/17) | 8.4 | 9.1, 9.2 |
| 14 (4/20 to 4/24) | Follow-up | Exam 4 Review |
| 15 (4/27 to 5/1) | **Exam 4** | Q&A—Final Exam Review |
| 16 (5/4 to 5/8) | **FINAL EXAMINATION**<br>**Wednesday, 5/6, 10:15 AM – 12:15 PM**<br>**ORIGINAL CLASSROOM** | |

**Mr. Robert E. Plant, II**
**TENTATIVE HOMEWORK CALENDAR**
**MATH 1342**

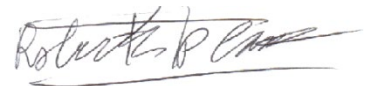| Week | Week Day 1 | Week Day 2 |
|---|---|---|
| 1 (1/13 to 1/17) | 1.1: In-Section Exercises | 1.2 & 1.4: In-Section Exercises |
| 2 (1/20 to 1/24) | **MLK, Jr. Holiday** | 2.1 & 2.2: In-Section Exercises<br>Weekly Homework #1 |
| 3 (1/27 to 1/31) | 3.1: In-Section Exercises;<br>3.2: In-Section Exercises | 3.4: In-Section Exercises;<br>Weekly Homework #2 |
| 4 (2/3 to 2/7) | **Exam 1** | 10.1: In-Section Exercises;<br>Weekly Homework #3 |
| 5 (2/10 to 2/14) | 10.2: In-Section Exercises | 4.1: In-Section Exercises<br>Weekly Homework #4 |
| 6 (2/17 to 10/21) | 4.2 & 4.3: In-Section Exercises | Weekly Homework #5 & #6 |
| 7 (2/24 to 2/28) | Chapter 5: In-Section Exercises | Weekly Homework #7 |
| 8 (3/2 to 3/6) | **Exam 2** | 6.1: In-Section Exercises |
| 9 (3/9 to 3/13) | 6.2: In-Section Exercises | 6.3: In-Section Exercises;<br>Weekly Homework #8 |
| 10 (3/16 to 3/20) | **SPRING BREAK – NO CLASS** | |
| 11 (3/23 to 3/27) | Chapter 7: In-Section Exercises | Weekly Homework #9 |
| 12 (3/30 to 4/3) | **Exam 3** | 8.1: In-Section Exercises |
| 13 (4/6 to 4/10) | 8.2: In-Section Exercises | 8.3: In-Section Exercises;<br>Weekly Homework #10 |
| 14 (4/13 to 4/17) | 8.4: In-Section Exercises | 9.1: In-Section Exercises;<br>9.2: In-Section Exercises |
| 15 (4/20 to 4/24) | Follow-Up; | Weekly Homework #11 |
| 16 (4/27 to 5/1) | **Exam 4** | Weekly Homework #12;<br>Final Exam Review |
| 17 (5/4 to 5/8) | **FINAL EXAMINATION**<br>**Wednesday, 5/6, 10:15 AM – 12:15 PM**<br>**ORIGINAL CLASSROOM** | |

**ACKNOWLEDGMENT OF RECEIPT**

As a student in this course, I hereby acknowledge that I have received, read, and clearly understood the syllabus. Furthermore, I hold myself accountable for adhering to the expectations stated therein. I also acknowledge that it is my duty and responsibility to notify the instructor of all personal situations that affect my standing in this course before any occur. I am fully aware that any breach of said expectations and responsibilities on my part will result in any necessary consequences that the instructor has stated to me through the syllabus, and that any differences of opinion will be discussed with the instructor in a manner befitting of adults. Finally, in the event of a later dispute by me, I will refer to the syllabus and will, by my signature, forfeit any pursuit that is not backed by the syllabus.

_____                    _____

Student's Printed Name                                         Date of Acknowledgment

_____                    _____

Student's Signature                                               Instructor's Signature

| Monday & Wednesday Schedule | | Tuesday & Thursday Schedule | |
|---|---|---|---|
| **Class** | **Time** | **Class** | **Time** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Scan and submit to "Acknowledgment of Receipt Upload" on **Blackboard**.