

South Plains College
Department of Mathematics and Engineering
Dual Credit Statistical Methods ~ Math 1342
Spring 2024 Course Syllabus

Instructor: Cassidee Wiemers, B.A, M.A.
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Office Hours:

	Monday	Tuesday	Wednesday	Thursday	Friday
Tutorials	12:03-12:48	12:03-12:48	12:03-12:48	12:03-12:48	12:03-12:48

Course Supplies: Required:

- Scientific Calculator (Recommended: TI-30XIIS) **GRAPHING CALCULATORS ARE PROHIBITED**
- Internet Access
- Method to post homework assignments to Google Classroom. You will need access to a camera-enabled device to submit your work. (Suggested: Camera phone)
- 2-inch binder to keep track of notes and homework
- Pencil or pen

The following materials and items are disallowed in this course:

- Cell phones- During lecture and for assistance on work completed inside class or outside
- Online math answering programs- Such programs provide “solutions” to unworked problems (i.e., Chegg, MathWay, PhotoMath, Wolfram Alpha, etc). Usage of such software will result in a 0 for the assignment.
- Notes on exams- Use of any additional resources including notes accumulated from lectures is strictly prohibited

Textbook: OPTIONAL- *Elementary Statistics: A Step By Step Approach*, Bluman, 2017, 10th Edition, McGraw-Hill.

(While not required, it may be helpful for additional clarification on concepts.)

Google Classroom: All information and resources needed for this course are available on Google Classroom. The syllabus, instructor contact information, and all course resources including notes, assignment documents/submissions, and lecture notes are stored there. Assignments due dates and exam dates are posted on the course syllabus. I'll be posting your grades in the gradebook on Ascender so that is where you can see what your grade is in the course at any time. You should get into the habit of checking Google Classroom daily for pertinent information.

Important Dates: **Class begin on Jan 15th**

Other important dates are listed below.

- **March 11-15th** Spring Break
- **April 25th** Last day to drop Spring semester courses
- **May 2nd-3rd** Final Exam (2 parts)

A tentative course outline is attached at the end of this syllabus. Note, it is up to the instructor's discretion to make adjustments as needed. Any changes will be posted to Google Classroom and announced in class.

Homework

Homework will be assigned with each lecture. It is the student's responsibility to submit their work/answers to the Google Form posted on Google Classroom. Grades for homework will be calculated using the following scale:

- 50 % from your completion of all questions and work
- 50 % from your ability to answer the questions on each Google Form correctly

Example: You complete all questions and submit all work and get 8/10 of the questions correctly. Your grade would be calculated by $100 * 0.5 + 80 * 0.5 = 90$.

PLEASE NOTE: LATE WORK WILL NOT BE ACCEPTED. NO EXCEPTIONS.

Exams:

There will be three unit exams given during the semester and a comprehensive, departmental final exam given at the end of the semester. There are no exemptions for the final exam. If you are going to miss a unit exam, contact your instructor immediately, preferably prior to the exam. Makeup exams are given only under extremely rare and documented circumstances. If miss an exam and do not let your instructor know prior, you may face deductions on your exam grade. Once you begin an exam, you cannot leave the room until the exam is submitted for grading.

Grading Scheme:

Your grade in the course will be comprised of scores from the following categories. **This course and its grade will be recorded on your official transcript.** Grades will be posted on Google Classroom throughout the semester.

- Exams (Each exam will count 15% for a total of 45%). The following exam dates are tentative. Any changes to these dates will be announced in class.
 - Exam 1 ~ Friday, February 2nd
 - Exam 2 ~ Friday, March 8th
 - Exam 3 ~ Tuesday, April 9th
- Homework (15%)
- Quizzes (20%)
- Comprehensive Final Exam (20%) ~ Thursday May 2nd and Friday May 3rd

Your high school average will be calculated using the grading scheme outlined above. For your South Plains College transcript, the following scale will be used.

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

Where to Get Help: Math can be challenging occasionally. Here are some ways in which you can receive quality assistance.

- As your instructor, I am the best resource for providing assistance. I am available during the listed office hours.
- **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 more about how to book an appointment, view the tutoring schedule, get to know the tutors, and view tutoring locations.

<http://www.southplainscollege.edu/exploreprograms/artsandsciences/teacheredtutoring.php>

- **Tutor.com** ~ You also have 180 FREE minutes of tutoring with tutor.com each week, and your hours reset every Monday morning. Log into Blackboard, click on the tutor.com link on the left-hand tool bar, click on the tools option from the left-hand menu bar. Then, click on the Tutor.com link and you will automatically be logged in for free tutoring. You can access tutor.com tutors during the following times:
 - Monday – Thursday: 8pm-8am
 - 6pm Friday – 8am Monday morning

**Responsibilities
& Expectations:**

1. Attend class regularly, be on time, and be prepared to learn.
2. Be attentive, take notes, and fully participate in class.
3. **DO ALL HOMEWORK.** Fully invest yourself in the homework process so that you can maximize your potential to be successful in the course. Do your own work, show all work, and complete the homework early enough that you can seek help if needed. Always turn in your homework on time.
4. Cell phones and any other electronic devices must be silenced and put away while you're in the classroom.
5. Be respectful to others in the classroom and assist in maintaining an optimum learning environment for all.

**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: *Elementary Statistics: Picturing the World*, Larson and Farber, 2019, 7th Edition, Pearson.

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 can not 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 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.

MATH-1342 Statistical Methods
Projected Schedule of Topics ~ Spring 2024

Week	Date	Lecture Topic
1	1/15-1/19	Chapter 1 (1.1,1.2,1.4)
2	1/22	CHAPTER 1 QUIZ
2	1/23-1/26	Chapter 2 (2.1-2.2)
3	1/29	CHAPTER 2 QUIZ
3	1/30-2/2	Chapter 3 (3.1-3.2)
4	2/5-2/8	Chapter 3 (3.4) & Unit 1 Exam Review
4	2/9	UNIT 1 EXAM
5	2/12-2/15	Chapter 10 (10.1-10.2)
5	2/16	CHAPTER 10 QUIZ
6	2/20-2/23	Chapter 4 (4.1, 4.2, 4.3)
7	2/26	Chapter 4 (4.1, 4.2, 4.3)
7	2/27	CHAPTER 4 QUIZ
7	2/28-3/1	Chapter 5 (5.1, 5.2, 5.3)
8	3/4- 3/7	Chapter 5 (5.3) & Unit 2 Exam Review
8	3/8	UNIT 2 EXAM
	3/11-3/15	SPRING BREAK
9	3/18-3/22	Chapter 6 (6.1, 6.2, 6.3)
10	3/25	CHAPTER 6 QUIZ
10	3/26-3/28	Chapter 7 (7.1, 7.2, 7.3)
11	4/1-4/5	Chapter 7 (7.2-7.3) & Unit 3 Exam Review
12	4/9	UNIT 3 EXAM
12	4/10-4/12	Chapter 8 (Chapter 8.1, 8.2)
13	4/15-4/19	Chapter 8 (8.2, 8.3, 8.4)
14	4/22	CHAPTER 8 QUIZ
14	4/23-4/26	Chapter 9 (9.1, 9.2)
15	4/29-5/1	FINAL EXAM REVIEW
15	5/2-5/3	FINAL EXAM
	5/6	SPC GRADES DUE