

Math 0342/1342.C602 Statistics (Corequisite)
Monday and Wednesday 7pm – 8:15 pm
Fall 2023 Room – B002

Instructor: Ms. Rachel Fleenor
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Office: M102
Office Phone: 806-716-4321

Office Hours: TR 11:00am – 12:00pm
 TR 5:00pm – 7:00pm
 F 2:00pm – 4:00pm
 (or by appointment)

Course Structure

- Hybrid Course
 - On Monday and Wednesday we will meet in class from 7 – 8:15 pm
 - Most Tuesdays and Thursdays you will be assigned lecture videos to watch (see course calendar)
 - Homework will be assigned through Pearson and announcements on due dates and assignments will be made in class.
 - Assessments, such as exams, will all be done in class.
 - All students are expected to be physically in class during in-class time.

Textbook

- Textbook can be found on MyStatLab through Pearson which can be bought on the Pearson website or access codes to Pearson can be purchased in the book store. (More details will be given on the first day of class)

Course Requirements/Materials

- Attend all classes ready to take notes and with homework done in advance. This will include notes over video lectures watched on off days.
- All graded assessments assigned in class are expected to be completed in the allotted class time, unless otherwise instructed by the instructor.
- Solid work ethic and character.
- Students will also need to purchase the access to MyStatLab AFTER the 14-day free trial period ends

Grading Policy (1342):

Participation (60 points, ~2 points/class)
 Exams (4 midterm exams at 85 points each)
 Final Exam (100 points)
 500 points total

Grading Scale (1342):

448-500 points A
 398-447 points B
 348-397 points C
 298-347 points D
 000-297 points F

The MATH 0342 final grade is at the discretion of the instructor and is only a Pass/Fail grade.

****Note: Students must justify answers or show work on all problems to receive full credit.*

Class Notes

- Found on Blackboard under Course Content.
- Should be completed by each student during class or while you watch the lecture video
- Bring all notes to class each day (2-3 inch binder or large notebook recommended)

Lecture Videos

- Found on Blackboard under Course Content.
- Watch and fill in the notes, pausing often to allow for cognitive processing time.
- Organize any questions to bring to class the next day.

Homework

- All homework will be completed and submitted through MyStatLab
- All homework will be due by 11:59 pm on the respective date
- No late homework will be accepted, however I am aware that life happens so I will drop your two lowest grades on homework.
- Using PhotoMath (or similar) is strictly prohibited and will result in academic dishonesty reports being submitted to your permanent record.
- Using ChatGPT on any assignment in this class is strictly prohibited.

Tests

- 4 midterm exams and 1 required final exam
- No notes/homework/textbooks will be allowed on ANY exam
- Complete in the allotted class time
- No exam grades will be dropped.
- It is in your best interest to save ALL graded documents until your final grade is assigned at the end of the term.
- Exams may be comprehensive.

Final Exam

- The 1342 final exam is comprehensive.
- Any student who does not take the final exams will fail the classes with F's regardless of the student's average.
- No make-up final exams will be offered.
- The Math 1342 final exam will be held on **Wednesday, Dec. 13th from 7:15pm to 9:15pm.**
- More details will be shared on Blackboard near the end of the term.

Late work

- Exams cannot be taken early or late. You must take exams in the classroom at the assigned testing time.

Make-up

- Make-up work is given at the discretion of the instructor.
- NO make-up assignments are given without prior notification AND proper documentation for the absence.
- If you are absent from class, have given prior notification and proper documentation of your absence, you MUST make arrangements to take the quiz or exam BEFORE the class period in which the exam will be given.

Attendance Policy

- Students are expected to attend **at least** eighty percent (80%) of the total class meetings (24 classes) **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.
- Unless given specific permission, students are expected to be in the class room and on time for class each class day.
- There are no excused absences, even with a doctor's note.
- Tardy
 - More than 10 minutes late
- Every 3 tardies count as 1 absence.

Participation Grade

- To receive full credit for the Attendance/Participation in Class portion of this daily grade, students must:
 - Be on time to class
 - Not leave class early
 - Not leave class for an extended period of time, as deemed by the instructor.
 - Stay awake during class
 - Not be on a cell phone or other mobile device during class
 - Participate in classroom discussions
 - Come prepared for class with notes/homework/review in hand.
- In the event you are absent during class, you will get 0 pts for the Attendance/Promptness portion of this grade for that day.

Academic Integrity

- Any student involved in cheating will receive a zero on the assignment(s) and will be informed of why he/she received a zero.
- Student may be administratively dropped from the class and will receive an X or F.

Calculators

- This course is taught under the assumption that each student owns a graphing calculator.
- I recommend a TI 84 series calculator.
- TI-Nspires are NOT recommended unless you are an expert at using them, as the instructor will be of little help.
- Calculators on cell phones or other electronic devices or apps will NOT be allowed during tests or in-class assignments.

Class Rules:

- Be on time and ready to learn.
- Students are not permitted to use electronic devices in class. **Put the cell phones away!!**
- During testing, all cell phones should be placed on SILENT or turned off, and all smart watches need to be removed and placed on the floor face-down to the left of your seat.
- Any student who leaves the classroom for any reason (bathroom, phone call, etc.) during an exam will not be allowed to continue the exam upon their return. Once you leave the classroom during an exam, you are done.
- Adhere to the requirements of the Student Code of Conduct.

South Plains College
Common Course Syllabus: MATH 0342/1342 Corequisite
Revised July 2023

Department: Mathematics, Engineering, and Computer Science

Discipline: Mathematics

Course Number: MATH 0342/1342

Course Title: Statistical Methods

Available Formats: conventional, hybrid

Campuses: Levelland, Downtown Center

Course Description for Math0342: Math0342 is to be taken concurrently with MATH 1342. Background topics which are necessary for a student to successfully complete MATH 1342 will be covered, with an emphasis on integers, percentages, graphing, fractions, and exponents.

Course Description for Math1342: 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: 6 **Lecture:** 6 **Lab:** 0

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

(BOOK IS ON PEASON, no need to purchase a physical copy)

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.

Tentative Calendar for Math 0342/1342 Fall 2023					
Week	Day	Date	Topic	Homework Assigned	Homework Due
1	Monday	Aug 28	Syllabus and Introduction	None	None
	Wednesday	Aug 30	Review of Chapter 1	CH01	None
2	Monday	Sept 4	Labor Day	None	None
	Tuesday	Sept 5	NONE		
	Wednesday	Sept 6	Review Operations of real numbers, exponents, and order of operations	Worksheet 1	CH01
	Thursday	Sept 7	Lecture Video over Reviewing operations with fractions, place value, and rounding	Worksheet 2	None
	Friday	Sept 8	Worksheet 1 due by 11:59 pm		
3	Monday	Sept 11	Review reading/interpreting graphs and Section 2.1	CH 2.1	Worksheet 2
	Tuesday	Sept 12	Lecture Video over Section 2.2	CH 2.2	None
	Wednesday	Sept 13	Section 2.3	CH 2.3	CH 2.1
	Thursday	Sept 14	CH 2.2 due by 11:59 pm		
	Friday	Sept 15	CH 2.3 due by 11:59 pm		
4	Monday	Sept 18	Section 2.4	CH 2.4	None
	Tuesday	Sept 19	NONE		
	Wednesday	Sept 20	Section 2.5	CH 2.5	CH 2.4
	Thursday	Sept 21	NONE		
	Friday	Sept 22	CH 2.5 due by 11:59 pm		
5	Monday	Sept 25	EXAM 1		
	Tuesday	Sept 26	NONE		
	Wednesday	Sept 27	Review summation notation and Section 3.1	CH 3.1	None
	Thursday	Sept 28	NONE		
	Friday	Sept 29	CH 3.1 due by 11:59 pm		
6	Monday	Oct 2	Review rational numbers and percents, and Section 3.2	CH 3.2	None
	Tuesday	Oct 3	NONE		
	Wednesday	Oct 4	Section 3.3	CH 3.3	CH 3.2
	Thursday	Oct 5	NONE		
	Friday	Oct 6	CH 3.3 due by 11:59 pm		
7	Monday	Oct 9	Section 4.1	CH 4.1	None
	Tuesday	Oct 10	NONE		
	Wednesday	Oct 11	Section 4.2	CH 4.2	CH 4.1
	Thursday	Oct 12	NONE		
	Friday	Oct 13	CH 4.2 due by 11:59 pm		

Tentative Calendar for Math 0342/1342 Fall 2023					
Week	Day	Date	Topic	Homework Assigned	Homework Due
8	Monday	Oct 16	Section 4.5	CH 4.5	CH 4.4
	Tuesday	Oct 17	CH 4.5 due by 11:59 pm		
	Wednesday	Oct 18	EXAM 2		
	Thursday	Oct 19	NONE		
	Friday	Oct 20	NONE		
9	Monday	Oct 23	Section 5.1 and Section 5.2	CH 5.1 and CH 5.2	None
	Tuesday	Oct 24	NONE		
	Wednesday	Oct 25	Section 5.3 and Section 5.4	CH 5.3 and CH 5.4	None
	Thursday	Oct 26	CH 5.1 due by 11:59 pm		
	Friday	Oct 27	CH 5.2 and CH 5.3 due by 11:59 pm		
10	Monday	Oct 30	Section 6.1	CH 6.1	CH 5.4
	Tuesday	Oct 31	Lecture Video over Section 6.2	CH 6.2	None
	Wednesday	Nov 1	Section 6.3	CH 6.3	CH 6.1
	Thursday	Nov 2	CH 6.2 due by 11:59 pm		
	Friday	Nov 3	CH 6.3 due by 11:59 pm		
11	Monday	Nov 6	EXAM 3		
	Tuesday	Nov 7	Lecture Video over Reviewing solving linear inequalities and Section 7.1	CH 7.1	None
	Wednesday	Nov 8	Section 7.2	CH 7.2	None
	Thursday	Nov 9	Lecture Video over Section 7.3 and Section 7.4	CH 7.3 and CH 7.4	CH 7.1
	Friday	Nov 10	CH 7.2 due by 11:59 pm		
12	Monday	Nov 13	Section 7.5	CH 7.5	CH 7.3 and 7.4
	Tuesday	Nov 14	NONE		
	Wednesday	Nov 15	Section 8.1 and Section 8.2	CH 8.1 and CH 8.2	CH 7.5
	Thursday	Nov 16	Lecture Video over Section 8.3 and Section 8.4	CH 8.3 and CH 8.4	None
	Friday	Nov 17	CH 8.1 and CH 8.2 due by 11:59 pm		
13	Monday	Nov 20	Section 9.1	CH 9.1	CH 8.3 and CH 8.4
	Tuesday	Nov 21	NONE		
	Wednesday	Nov 22	Thanksgiving Break – No classes		
	Thursday	Nov 23			
	Friday	Nov 24			

Tentative Calendar for Math 0342/1342 Fall 2023					
Week	Day	Date	Topic	Homework Assigned	Homework Due
14	Monday	Nov 27	Review CH 7 and CH 8	None	CH 9.1
	Tuesday	Nov 28	NONE		
	Wednesday	Nov 29	EXAM 4		
	Thursday	Nov 30	Lecture Video over Reviewing linear equations/slope and 9.2	CH 9.2	None
	Friday	Dec 1	Lecture Video over Section 9.3	CH 9.3	None
15	Monday	Dec 4	REVIEW		
	Tuesday	Dec 5	CH 9.2 and CH 9.3 due by 11:59 pm		
	Wednesday	Dec 6	REVIEW		
	Thursday	Dec 7	NONE		
	Wednesday	Dec 13	Math 1342 Comprehensive Final Exam 7:15pm – 9:15pm		

*****Last day to drop – Nov. 30th *****