South Plains College
Math 1324.601 Syllabus
Mathematics for Business, Economics, Life and Social Sciences
Mondays and Thursdays 6pm – 7:55pm
Summer I 2025

Instructor: Mrs. Morgan Groves
Email: mgroves@southplainscollege.edu
Office: B017 Downtown Lubbock Center
Office Phone: 806-716-2735

Office Hours: By appointment only

Course Structure

- Flipped hybrid class – Video lectures with in-class support and exams
  - Daily lectures will be done via my lecture videos found on Blackboard with the notes outline provided also on Blackboard.
    - Notes are to be submitted to Gradescope daily for an Assignments grade.
  - Assessments, such as quizzes and exams, will all be done in class.
  - All students are expected to be physically in class unless given explicit permission to be virtual.

Course Description

- This course is designed for Business, Economics, and Life and Social Science majors.
- It is a heavy application course, meaning the course is primarily word problems.

Textbook

- No book for this section.

Course Requirements/Materials

- Reliable internet access
- Working webcam and microphone other than your smart phone.
- Printer (for notes), but notes can be done electronically (tablet/ipad) instead of printing
- Smart phone and/or scanner to turn a written document into a PDF file

Grading:	Tests (4 total)	60%	Grading Scale:	A 90-100
	Daily/Participation	20%		B 80-89
	Final Exam	20%		C 70-79
				D 60-69
				F 59 or below

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

Communication

- Students are expected to check their SPC emails at least once per day.
- The instructor promises to respond to student emails within 48 hours, with the exception of weekends.
- The instructor does not check/respond to emails after 5pm on Fridays and not at all on Saturdays and Sundays. Any emails sent past 5pm on a Friday will be responded to on Monday.
- When you send questions via email, attach a pdf of your work to the email.

Class Notes

- Found on Blackboard under Course Content.
- Should be completed by each student (hand-written) using lecture videos provided on Blackboard.
    - I recommend you print the notes, but this is not required. You may fill them out digitally using a tablet or use your own blank paper to take notes during the videos.
- Upload completed notes to Gradescope by the indicated due date on the course calendar at the end of this syllabus.
    - These are Assessment grades.

Assignments Grade

- Any labs or quizzes will fall in this category.
- All notes will be required to be submitted to Gradescope for an Assignments completion grade.

Lecture Videos

- Found on Blackboard under Course Content.
- Watch and fill in the notes, pausing often to allow for cognitive processing time.
- Organize your questions to e-mail your professor for extra help.
- Completion of the lecture videos is part of your daily Assessment grade.

Homework

- Written assignments
- Not graded nor submitted, but the only way to succeed in this course is to do every homework problem on every assignment.
- All work should be shown on your own paper.
- Problems should be in proper order on paper.
- Must use pencil.
- Must be done by hand (no typing).
- Show all work!!
- Must be your own work!
- Answers found on Blackboard.
- Using PhotoMath (or similar) is strictly prohibited and will result in academic dishonestly reports being submitted to your permanent record.
- Using ChatGPT on any assignment in this class is strictly prohibited.

Tests

- 4 midterm exams and 1 final exam
- A 3x5 hand-written notecard can be used on the exams. Double-sided is okay.
- 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.
- No make-up exams will be given.
    - In the event you miss a test, your final exam grade can replace up to one missed test grade.
- Test corrections are for your own benefit and will not be graded.

Final Exam

- The final exam is comprehensive.
- Any student who does not take the final exam will fail the classes with F's regardless of the student's average.
- No make-up final exam will be offered.
- A 3x5 hand-written notecard is allowed, but you will not be getting it back after the exam.
- More details will be shared on Blackboard near the end of the term.

Late work

- Definition: work that was assigned but not turned in on time.
    - Ex: notes were to be completed using the lecture videos and uploaded to Gradescope, but student did not upload the notes by the due date.
- Late work is not accepted.
- If you do not turn in an assignment on time, you will receive a zero.

Make-up

- Definition: work that is done by students after the class has already completed the assignment.
    - Ex: Student misses a quiz in class because they were late or absent from class.
- Make-up work is given at the discretion of the instructor.
- NO make-up labs or tests are given without prior notification AND proper documentation.
- If you are absent from class on an exam day, have given prior notification and proper documentation of your absence, you MUST plan to take the exam BEFORE the next class period or the end of the week, whichever occurs first.
- If proper documentation and/or prior notification was not provided for your absence, and/or if you have not planned (prior to the missed class) with the professor to take the missed assignment, then you will receive a 0 for that assignment.
    - Some number of grades might be dropped at the end of the term depending on how many grades in each category there are by the end of the term.
        - No test grades are dropped.
- Any make-up assignments that are permitted by the professor must be done within 24 hours of the missed assignment.

SPC Attendance Policy

- No more than 2 classes can be missed.
    - Students may be administratively dropped from the class for missing over 2 classes for *any* reason.
- Students must not miss too many assignments! Missing more than 20% of the assignments in the term can result in an administrative drop from the course.
- Unless given specific permission, students are expected to be in the classroom 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
    - Leaving early
- Any student who arrives more than 20 minutes late or leaves more than 45 minutes early without instructor's permission will be counted absent that day.
- Any student who falls asleep during class or who leaves class for an extended period of time, as determined by the instructor, will be counted "tardy" that day.
- **Every 3 tardies count as 1 absence.**

Transportation issues? Call an Uber, get a bus pass (Route 5 drops off just one block from the Downtown Center campus – Broadway and Ave Q – and starts at 7:50am and runs until 8:45pm), call a taxi (West Texas Cab Company (806) 559-9900), or ask a friend for a ride.

Submitting Documents Online (Gradescope)

- Download the Gradescope app onto your smart phone.
  - Log-in with your SPC credentials, just like you log into Blackboard.
- Students will be required to upload written work to Gradescope (notes, labs).
- After uploading your work, Gradescope will provide you an opportunity to indicate which problems are on which pages of your work. You can "cancel" and not do this step.
- It is the student's responsibility to ensure the document is legible and in the correct format.
- Any assignment not submitted in the correct format will be given a 0.

In the event of "life" preventing you from attending class:

1. Email the professor ASAP to inform her of your situation. Provide documentation, if applicable.
2. Plan to attend class virtually via Blackboard Collaborate (permission required).
   - This will count for your attendance that day.
3. If you are absent or a virtual student on a quiz/test day, you forfeit the opportunity to take the quiz/exam.
4. If students are not able to attend class virtually and/or are not granted permission to be a virtual student that day, then that missed class will count as an absence regardless of the reason.
5. Students are expected to make <u>every effort</u> to attend class each day.

Calculators

- There **will** be times throughout the term when students will need a <u>graphing</u> calculator to complete an assignment.
- This course is taught under the assumption that each student owns a graphing calculator.
- I recommend a TI 84 series calculator.
- TI NSpires and Casio calculators are NOT recommended unless you are an expert at using them, as the instructor will be of little help.

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.
  - "Cheating" includes, but is not limited to, using PhotoMath, MathWay, WolframAlpha, ChatGPT, or any other artificial intelligence to do work assigned in this class.
- Student may be administratively dropped from the class and will receive an X or F.

Class Rules:

- Be on time and ready to learn.
- Use only pencil for all assignments.
- Have the notes completed **prior** to coming to class.
- Students are not permitted to use electronic devices, other than a calculator, in class. **Put the cell phones away!! Close the laptops unless you are using them to take notes.**
- 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 1324
Revised December 2022

Department: Mathematics, Engineering, and Computer Science

Discipline: Mathematics

Course Number: MATH 1324

Course Title: Mathematics for Business and Social Sciences

Available Formats: conventional, hybrid, and internet

Campuses: Levelland, Downtown Center, and Dual Credit

Course Description: The application of common algebraic functions, including polynomial, exponential, logarithmic, and rational, to problems in business, economics, and the social sciences are addressed. The applications include mathematics of finance, including simple and compound interest and annuities; systems of linear equations; matrices; linear programming; and probability, including expected value.

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 0320, or successful completion of NCBM-0114.

Credit: 3 **Lecture:** 3 **Lab:** 1

Textbook: *Mathematics with Applications in Business and Social Sciences*, Hawkes Learning, 2022, Hawkes Learning

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. Apply elementary functions, including linear, quadratic, polynomial, rational, logarithmic, and exponential functions to solving real-world problems.
2. Solve mathematics of finance problems, including the computation of interest, annuities, and amortization of loans.
3. Apply basic matrix operations, including linear programming methods, to solve application problems.
4. Demonstrate fundamental probability techniques and application of those techniques, including expected value, to solve problems.

5. Apply matrix skills and probability analyses to model applications to solve real-world problems.

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.
South Plains College policies concerning diversity, disabilities, non-discrimination, Title IX Pregnancy Accommodations, and Campus Concealed Carry Statements can be found here: 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 Math 1324.601 – Summer I, 2025					
Week	**Day**	**Date**	**Topic**	**Notes/Homework**	**Notes Due on Gradescope (by 11:59pm)**
1	*Monday	June 2	Introduction/Syllabus Solving Linear Inequalities; Graphs & Equations of Lines	1.1 – 1.2	Monday, June 2
	Tuesday	June 3	Functions; Linear Business Applications	1.3	Tuesday, June 3
	Wednesday	June 4	Systems of Linear Equations & GJE; Applications of GJE	1.4 – 1.5	Wednesday, June 4
	*Thursday	June 5	Matrix Operations and Applications (Input/Output Analysis)	1.6	Thursday, June 5
2	***Monday**	**June 9**	**Exam 1**	**Unit 1**	
	Tuesday	June 10	Graphical Linear Programming	2.1	Tuesday June 10
	Wednesday	June 11	Linear Programming Simplex Method; Two-Phase Method	2.2 – 2.3	Wednesday, June 11
	*Thursday	June 12	Sets, Probability, Expected Value	2.4	Thursday, June 12
3	***Monday**	**June 16**	**Exam 2**	**Unit 2**	
	Tuesday	June 17	Quadratic Functions and Applications; Polynomial Functions & Applications	3.1 – 3.2	Tuesday, June 17
	Wednesday	June 18	Rational Functions & Applications	3.3	Wednesday, June 18
	Thursday	June 19	***SPC Holiday – No Classes***		
4	*Monday	June 23	**Exam 3**	**Unit 3**	
	Tuesday	June 24	Exponential and Logarithmic Functions	4.1 – 4.2	Tuesday, June 24
	Wednesday	June 25	Exponential & Logarithmic Equations and Applications; Simple and Compound Interest	4.3 – 4.4	Wednesday, June 25
	*Thursday	June 26	Annuities	4.5	Thursday, June 26
5	***Monday**	**June 30**	**Exam 4**	**Unit 4**	
	Tuesday	July 1	Study!!		
	***Wednesday**	**July 2**	**Final Exam**	**Comprehensive**	

Days with * are days we will meet in person each week.

Last day to drop a class: June 25th