

South Plains College, Lubbock Downtown Center – Mathematics Department
Syllabus – Corequisite Business Mathematics – MATH 0324-1324 Section C601

Revised 8/19/2026

Instructor: Thomas Johnson, M.S. – Assistant Professor of Mathematics

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Office Hours at the Lubbock Downtown Center:

M/W 8:15 – 9:00 AM

T/H 8:15 – 9:00 AM & 2:45 – 4:45 PM

F 8:15 – 9:15 AM

Course Description:

(3:3:1) MATH 0324 is to be taken concurrently with MATH 1324. Background topics which are necessary for a student to successfully complete MATH 1324 will be covered, with an emphasis on fractions, factoring polynomials, functions, exponents, and operating with radical expressions. Semester Hours: 3 Lecture Hours: 3 Lab Hours: 1 When Offered: Fall and Spring semesters Pre-requisite: TSIA2 diagnostic score of 4 or 5 or 'C' or better in MATH 0305 Co-requisite: MATH 1324 Note: A grade of P is required for satisfactory course completion.

MATH 1324 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. Semester Hours: 3 Lecture Hours: 3 Lab Hours: 1 When Offered: Fall, Spring, Summer I, and Summer II semesters Pre-requisite: TSI-compliance in Mathematics Note:

- This course satisfies a **020 Mathematics** Core Curriculum requirement.
- This course may serve as a prerequisite for additional math courses where a grade of C or higher is required.

Textbook:

Kirk, D.; *Contemporary Mathematics*; openstax.org; Rice University; Houston, TX; Digital Version
ISBN-13: 978-1-951693-68-8.

Abramson, J.; *College Algebra 2e*; openStax.org; Rice University; Houston, TX; Digital Version
ISBN-13: 978-1-951693-41-1, 2021.

Attendance: Attendance and effort are the most important activities for success in this course. The instructor maintains records of the student's engagement throughout the semester. As a Face-to-Face course, the student should attend at least 75% of the course in the classroom. Should absences exceed 25%, the instructor has the right to drop the student with a grade of F or an X, depending on the instructor's discretion. Extenuating circumstances will be considered.

Core Objectives:

Communication Skills: Effective development, interpretation, and expression of ideas through written, oral, and visual communication.

Critical Thinking: Creative thinking, innovation, inquiry, analysis, evaluation, and synthesis of information.

Empirical and Quantitative Competency Skills: The manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

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Student Learning Outcomes/Competencies*:

This track is designed for students to review core arithmetic and applies it to everyday commerce.

- **Core Arithmetic Review:** Fractions, decimals, ratios, proportions, and percentages.
- **Financial Operations:** Simple and compound interest, present and future value, and business loans.
- **Commercial Transactions:** Trade and cash discounts, markups, markdowns, and pricing.

This track is designed for students to review for a business, accounting, or economics degree. It uses algebraic functions to model business scenarios.

- **Algebraic Applications:** Polynomial, exponential, logarithmic, and rational functions applied to supply, demand, and cost.
- **Math of Finance:** Annuities, sinking funds, and amortizations.
- **Linear Systems & Matrices:** Solving systems of linear equations using matrices.
- **Linear Programming:** Maximizing or minimizing profit and production constraints.
- **Probability & Statistics:** Basic expected value, permutations, combinations, and conditional probability.

Assignments & Grading: Homework assignments will be made at each class meeting. Please make certain all materials accompany you to each class meeting. Daily Practice will be provided. Five Quizzes will account for 75%, and the Final Exam will account for 25% of the Course Grade. Your final average in the course will determine the letter grade posted on your transcript.

Grade is determined by the following scale: A (90-100%), B (80-89%), C (70-79%), D (60-69%), F (0-59%).

Note:

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, AI generation, 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.
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.

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Supplementary Course Information: Blackboard is the online course management system that will be utilized for this course. This course syllabus, as well as any class handouts, can be accessed through Blackboard. Login at <http://spc.blackboard.com>. The user name and password should be the same as the MySPC and SPC email.

Username: first initial, last name, and last 4 digits of the Student ID

Password: Original Campus-Connect Pin No. (found on SPC acceptance letter)

Student Conduct: The “Student Code of Conduct” will be followed in this course. You are expected to be respectful to others in the classroom. Please SILENCE phones before entering class and assist in maintaining a classroom environment conducive to learning. Any student disrupting the learning environment will be asked to leave and may be dropped from the course.

Disability: Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request ADA Sec. 504 accommodation in this class should notify the Disability Services Office early in the semester so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability. For more information, call or visit the Disability Services Office in the Student Health & Wellness Office, 806-716-2577, or at the Plainview, TX Campus main office, 806-296-9611.

Nondiscrimination Policy: South Plains College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Vice President for Student Affairs, South Plains College, 1401 College Avenue, Box 5, Levelland, TX 79336. Phone number 806-716-2360.

Title IX Pregnancy Accommodations Statement: If you are pregnant, or have given birth within six months, Under Title IX you have a right to reasonable accommodations to help continue your education. To activate accommodations, you must submit a Title IX pregnancy accommodations request, along with specific medical documentation, to the Director of Health and Wellness. Once approved, notification will be sent to the student and instructors. It is the student’s responsibility to work with the instructor to arrange accommodations. Contact the Director of Health and Wellness at 806-716-2362 or email cgilster@southplainscollege.edu for assistance.

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COVID-19: It is the policy of South Plains College that as a condition of on-campus enrollment, all students are required to engage in safe behaviors to avoid the spread of COVID-19 in the SPC community. There will be no requirement for face coverings at any location on any South Plains College campus or classroom. Faculty, staff, or students may continue to wear a mask voluntarily, but there will be no requirements for face coverings in any circumstance. If you are experiencing any of the following symptoms, please do not attend class and either seek medical attention or get tested for COVID-19:

- Cough, shortness of breath, difficulty breathing
- Fever or chills
- Muscles or body aches
- Vomiting or diarrhea
- New loss of taste and smell
- If you test Positive (+) for Covid-19
 - Five days isolation ○ You may return if:
 - No fever in last 24 hrs.
 - Covid symptoms are improving. *(Some may persist, i.e.. Loss of taste)*

Please also notify DeEtte Edens, BSN, RN, Associate Director of Health & Wellness, at dedens@southplainscollege.edu or 806-716-2376.

Equal Opportunity: South Plains College strives to accommodate the individual needs of all students in order to enhance their opportunities for success in the context of a comprehensive community college setting. It is the policy of South Plains College to offer all educational and employment opportunities without regard to race, color, national origin, religion, gender, disability, or age.

Campus Concealed Carry - Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in South Plains College buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and South Plains College policy, license holders may not carry a concealed handgun in restricted locations. For a list of locations, please refer to the SPC policy at: (http://www.southplainscollege.edu/human_resources/policy_procedure/hhc.php).

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all South Plains College campuses. Report violations to the College Police Department at 806-716-2396 or 911.

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Math for Business and Social Sciences (CoReq)

Week	Dates	Topic	DUE
1	8/24 - 8/28	EA 1.1 Intro to Whole Numbers EA 1.3 Add & Subtract Integers EA 1.4 Multiply & Divide Integers EA 1.5 Visualize Fractions	31-Aug
2	8/31 - 9/4	EA 1.6 Add & Subtract Fractions EA 1.7 Decimals EA 1.8 The Real Numbers EA 3.2 Solve Percent Applications	8-Sep
3	9/8 - 9/11	{ Labor Day Holiday 8/7/2026 } EA 4.1 Use The Rectangular Coordinate System EA 4.2 Graph Linear Equations with Two Variables QUIZ #1 of 5	14-Sep
4	9/14 - 9/18	CM 5.4 Ratios & Proportions CM 5.5 Graphing Linear Equations & Inequalities CM 5.9 Systems of Linear Equations in Two Variables CM 5.11 Linear Programming	21-Sep
5	9/21 - 9/25	CM 6.1 Understanding Percent CM 6.2 Discounts, Markups, & sales Tax CM 6.3 Simple Interest CM 6.4 Compound Interest	28-Sep
6	9/28 - 10/2	CM 6.5 Making a Personal Budget CM 6.7 Investments CM 6.8 The Basics of Loans QUIZ #2 of 5	5-Oct
7	10/5 - 10/9	EA 4.3 Graph With Intercepts EA 4.4 Understanding The Slope of a Line EA 4.5 Use the Slope-Intercept Form of an Equation EA 4.6 Find the Equation of a Line	12-Oct
8	10/12 - 10/15	EA 4.7 Graphs of Linear Equations EA 5.1 Solve Systems of Equations by Graphing EA 5.2 Solving Systems of Equations by Substitution EA 5.3 Solve Systems of Equations by Elimination	19-Oct
9	10/19 - 10/23	EA 5.4 Solve Applications with Systems of Equations EA 5.5 Solve Mixture Applications with Systems of Equations EA 5.6 Graphing Systems of Linear Inequalities QUIZ #3 of 5	26-Oct
10	10/26 - 10/30	CA 7.5 Matrices and Matrix Operations CA 7.6 Solving Systems with Gaussian Elimination CA 7.7 Solving Systems with Inverses CA 7.8 Solving Systems with Cramer's Rule	2-Nov

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Week	Dates	Topic	DUE
11	11/2 - 11-6	CA 4.1 Linear Functions CA 4.2 Modeling with Linear Functions CA 4.3 Fitting Linear Models to Data CA 5.1 Quadratic Functions	9-Nov
12	11/9 - 11/13	CA 5.3 Graphs of Polynomial Functions CA 5.4 Dividing Polynomials CA 5.5 Zeros of Polynomial Functions QUIZ #4 of 5	16-Nov
13	11/16 - 11/20	CA 5.6 Rational Functions CA 6.1 Exp. Functions & 6.2 Their Graphs CA 6.3 Log. Functions and 6.4 Their Graphs CA 6.7 Exp. & Log. Models	23-Nov
14	11/23 - 11-24	CM 7.1 Multiplication Rule for Counting CM 7.2 Permutations & 7.3 Combinations { Thanksgiving Break } { Thanksgiving Break }	30-Nov
15	11/30 - 12/4	CM 7.6 Probabilities with Perm. & Comb. CM 8.1, 8.2, 8.3 Gather, Visualize, Mean, Mode, Median CM 8.8 Scatter Plots, Correlation & Regression Lines QUIZ #5 of 5	4-Dec
16	12/7 - 12/10	FINAL EXAM (TBD)	