



MATH1324.01L/0324.01L Math for Business/Social Sciences I

Spring 2026

Instructor: Dr. Elizabeth Leyva

E-mail: eleyva@tamusa.edu (*best way to reach me!)

Class meeting: MWF 10-11:50 am in HALL 205

Credit hours: 3 credits

Office: Classroom Hall 314X or online

Office Hours (Student Help Sessions) <i>**Please do not hesitate to ask if you need to meet at a different time!</i>	
Mondays	9 – 10 am (on campus) or 12 – 12:30 pm (on campus)
Tuesdays	By appointment; online
Wednesdays	9 – 10 am (on campus) or 12 – 12:30 pm (on campus)
Thursdays	By appointment; online
Fridays	9 – 10 am (on campus) or 12 – 12:30 pm (on campus)
Saturdays	By appointment; online

Catalog Description: Students will study topics from college algebra (linear equations, quadratic equations, functions and graphs, inequalities), mathematics of finance (simple and compound interest, annuities), linear programming, matrices, systems of linear equations, and applications to management, business and social sciences. This course meets the standards for the Mathematics category of courses under the core curriculum.

Prerequisites: Evidence of math equivalent to High School Algebra II ("C" or higher) or placement

Course Materials

REQUIRED: Online access code for *Mathematics with Applications in the Management, Natural & Social Sciences* by Lial, Hungerford, Holcomb (13th edition); (E-book included with access code).

**Access codes are available in Blackboard, through the Brytewave link

**You will automatically be billed directly for your access code to your student account. Please see your instructor if you choose to opt out.

OPTIONAL: Notebook for class handouts, notes, etc.

Students can purchase a loose-leaf version of the text for a reduced cost if desired.

Calculator Policy: A scientific non-graphing, non-programmable calculator is required; TI-30XIIS or TI-30XS is recommended. No cell phone or graphing calculators will be allowed on exams, and online math utilities (e.g., Desmos) are also not allowed. **If you need a scientific calculator, the library on campus has some for you to check out.

Grading Policy

# of Graded Items	Graded Course Elements	Percentage
Approx. 30	Homework (completed on MyMathLab)	10%
Approx. 10	Weekly Quizzes (completed in class or on MyMathLab)	10%
3	Unit Tests	60%
1	Final Exam	20%

Grade Scale for MATH 1324: 90 – 100% = A; 80 – 89% = B; 70 – 79% = C; 60 – 69% = D Below 60% = F

Grade Scale for MATH 0324: 60 – 100% = CR (CREDIT); Below 60% = NC (NO CREDIT)

Additional Grading Information

*Please watch the deadlines in MyMathLab to ensure that HW is completed on time. No late homework or quizzes will be allowed, and individual make-up exams will be given in rare cases and only with instructor approval. If you are struggling with deadlines, please see me to discuss any concerns you have.

*The lowest quiz grade will be dropped at the end of the semester.

*The final examination is a comprehensive exam and is required of all students. The final exam may also replace a low or missing test grade.

*The grading policy may be amended during the semester at the instructor's discretion.

Student Learning Objectives: MATH 1324 helps students develop critical thinking, communication, and empirical and quantitative skills by focusing on student understanding of key algebraic concepts to include recognizing, identifying, solving, analyzing, and explaining applications of various mathematical functions in management, economics, and business problems. Upon completion of this course, students will:

1. Apply elementary functions, including linear, quadratic, polynomial, rational, logarithmic, and exponential functions to solve and interpret real-world problems.
2. Recognize and solve mathematics of finance problems, including the computation of interest, annuities, and amortization of loans.
3. Apply and explain basic matrix operations, including linear programming methods, to solve application (business) problems.
4. Demonstrate fundamental probability techniques and application of those techniques, including expected value, to solve problems.
5. Interpret and apply matrix techniques and probability analyses to model applications to management, economics, and business problems

List of Topics: Topics to be covered include but are not limited to the following.

1. Graphs (Section 2.1)
2. Equations of Lines (Section 2.2)
3. Linear Models & Applications (Sections 2.3, 3.3)
4. Functions, Graphs, and Transformations (Sections 3.1-3.2)
5. Quadratic Functions & Applications (Section 3.4)
6. Polynomial and Rational Functions (Sections 3.5-3.6)
7. Exponential and Logarithmic Functions (Sections 4.1-4.4)
8. Simple and Compound Interest (Section 5.1)
9. Annuities, Future Value & Sinking Funds (Section 5.2)
10. Consumer Loans & Amortization (Section 5.3)
11. Systems of Linear Equations & Augmented Matrices (Sections 6.1-6.3)
12. Basic Matrix (Section 6.4)
13. Linear Inequalities & Linear Programming (Sections 7.1-7.3)
14. Simplex Method (Sections 7.4-7.5)
15. Probability & Expected Value (Sections 8.3, 9.1)

The instructor reserves the right to modify/update the topics as appropriate.

Course Requirements and Expectations

Class Attendance: Students are expected to attend lectures regularly. Be aware of what has been covered in every class and any announcements and course policy changes made in class. Announcements and changes will also be communicated through Blackboard. You are welcome to ask questions during my office hours; however, it is your responsibility to learn the material.

Learning New Content: In this face to face class, your instructor will hold 3 lecture and activity sessions each week during our scheduled class time. If you miss a class meeting, be sure to reach out to a classmate for the class notes. For additional information or details, you can also watch the **section video presentations** in the MyMathLab program. These videos can be accessed from the Chapter Contents menu or in the assignments list in MML. There is also a

power point presentation for each section within MML. If you don't attend class regularly, you will have a difficult time with the HW and quizzes each week.

Homework: Most homework and some quizzes will be completed online in MyMathLab (MML), along with occasional assignments or activities posted in Blackboard. You will need an access code that is available in Blackboard – please look for the Brytewave link. Read the announcements in Blackboard for all instructions. All due dates are listed in MML. You can complete the assignments until 11:59 pm of the due date listed. The homework may be attempted multiple times in order to increase your homework grade. No late assignments will be accepted nor make-ups allowed. Please plan ahead to be sure you meet the deadlines. If you are consistently struggling with the deadlines, please reach out to me so that we can discuss possible solutions.

You are enrolling in a SIX HOUR math course, so expect to work on your Math work very frequently. Waiting to work on one day at the end of the week and try to get all caught up then would be disastrous for this six-hour course!! Assignments will be due throughout the week – watch deadlines in MML closely.

Quizzes: Weekly quizzes will be completed in class or occasionally due in MyMathLab. When quizzes occur online, they may be attempted three times, and each quiz attempt has a time limit. Only the highest score will be counted. In this case, students should attempt the quiz multiple times in order to improve your grade and be prepared for the unit test. No late assignments will be accepted nor make-ups allowed. At the end of the semester, the lowest quiz grade will be dropped.

Tests: Three unit tests are scheduled during the semester and a comprehensive final exam. All exams will be given in class and will extend through the designated help session (recitation) time to allow for extended testing time. You should show all work in order to get full credit for the problems. Students will be allowed to use a scientific calculator on the tests. In case you miss an exam or find out that you will miss an exam, you should contact me either in person or by e-mail, at least one week in advance of the exam for non-emergency cases or within 24-hrs of the scheduled exam date for emergency cases. Any missed exam counts as a 0 unless the student has a valid documented excuse and contacts me as soon as possible after the excuse for missing the test arises. Examples of valid documented excuses are sickness documented with a doctor's note, death in the family documented with a copy of the death notice, attending university-sponsored events with a Dean's excuse, etc. Minor headaches or attending sports events (without Dean's excuse) are not examples of emergency situations. Other than described above, no make-up exams will be given, but the final exam can replace your lowest test grade. Test dates are listed below. Please contact me ASAP if you have concerns about the testing dates.

Unit 1 Exam Wednesday, Feb 18

Unit 2 Exam Wednesday, March 25

Unit 3 Exam Wednesday, April 22

Final Exam Friday, May 8, 8:00 am

Final Exam: In order to pass this class students must take a comprehensive final exam scheduled during Finals Week. Final exams cannot be rescheduled or missed (for dire and unforeseen medical or family emergencies, students must consult with me). The final exam will also be taken in a classroom setting, with work submitted to justify your solutions. The final exam may be used to replace your lowest regular exam grade. **The final exam must be completed by the announced due date. No exceptions.**

Gradebook: The gradebook in MML will keep a running average of your grade. NOTE: The gradebook in Blackboard is not weighted and should only be used to review individual grades, not to assess your overall course grade.

I will review any online quizzes in order to assign partial credit where possible. (*I look for answers that are technically correct but have not been submitted in 'good form'. An example would be an answer of 14/16 that has not been simplified to 7/8. Your answers will be more complicated than this example, but you get the idea that I will be looking for answers that are technically correct.) I will NOT review HW answers because you have unlimited attempts for each problem.

Supplemental Instruction: Our course will partner with the Academic Learning center to offer Supplemental Instruction (SI) sessions specifically and exclusively for the students in this section. Our assigned SI tutor will attend

classes, and also hold additional study sessions outside of class times. Data has shown that students that attend SI at least once a week earn a full letter grade higher than their peers that do not. Please plan to take advantage of this resource!

CircleIn: Our class will use the [CircleIn](#) app to study and help one another succeed in this course. Studying and learning alone is one of the hardest parts of a course, so please leverage one another for help. With CircleIn, you can

- Ask anonymous questions
- Connect with all students taking the same course in addition to those in this class with you, via the course and class chat. Please note, this app does NOT require you to give out your personal contact information to anyone.
- Participate in video study rooms
- Connect with the AI Tutor
- Stay organized with assignments and tasks using the planner feature
- Create, study & share flashcards, notes & resources with every student taking the course.
- Provide anonymous weekly course feedback to share with me and the class what you're struggling with and what questions you have and you can help each other resolve those questions.

My expectation is that you engage with your classmates each week on CircleIn. For those of you needing help, use it to ask questions, and for those of you willing to help others, please check it often to look for questions that haven't been responded to yet. CircleIn is a leaderless student community where each of you is stronger together, particularly when you engage. I will get regular updates on how the class is doing on CircleIn. Lastly, CircleIn is paid for by Texas A&M University San Antonio, so you will never see advertising, you won't be asked for a credit card or banking info and you can communicate with any student directly through CircleIn, so you don't have to give out any personal contact information to set it up. Please take advantage of it today. See additional information in Blackboard to get started.

Important Policies and Resources

[University Email Policy and Course Communications](#): All correspondence between professors and students must occur via University email accounts. You must have your Jaguar email account ready and working. If it is not working, contact the help desk at helpdesk@tamusa.edu or at 210-784-HELP (4357). If you don't hear back within 48 hours, contact them again. They have many requests during the first part of the semester, so you may need to follow up with them.

[Academic Accommodations for Individuals with Disabilities](#): Texas A&M University-San Antonio is committed to providing all students with reasonable access to learning opportunities and accommodations in accordance with The Americans with Disabilities Act, as amended, and Section 504 of the Rehabilitation Act. If you experience barriers to your education due to a disability or think you may have a disability, Disability Support Services is located in the Central Academic Building, Suite 210. You can also contact us via phone at (210) 784-1335, visit us at [the DSS website](#) or email us at dss@tamusa.edu. Disabilities may include, but are not limited to, attentional, learning, mental health, sensory, physical, or chronic health conditions. All students are encouraged to discuss their disability-related needs with Disability Support Services and their instructors as soon as possible.

[Academic Learning Center](#): All currently enrolled students at Texas A&M University-San Antonio can utilize the Academic Learning Center for subject-area tutoring. The Academic Learning Center provides free course-based tutoring to all currently enrolled students at Texas A&M University-San Antonio. Students wishing to work with a tutor can make appointments through the Brainfuse online tutoring platform. Brainfuse can be accessed in the *Tools* section of Blackboard. You can contact the Academic Learning Center by emailing tutoring@tamusa.edu, calling (210) 784-1307, or visiting the Central Academic Building, room 202. Online tutoring is also available for after hours and weekend assistance.

While tutoring hours may change based on tutor schedules and availability, the current tutoring hours for MATH in the ALC are as follows:

Days	Appointments available	Walk in Tutoring – No appointment needed
MONDAY	8 am – 6 pm	9 am – 5 pm
TUESDAY	8 am – 6 pm	9 am – 5 pm
WEDNESDAY	8 am – 6 pm	9 am – 5 pm
THURSDAY	8 am – 6 pm	9 am – 5 pm
FRIDAY	8 am – 5 pm	11 am – 4 pm

Counseling/Mental Health Resources: As a college student, there may be times when personal stressors interfere with your academic performance and negatively impact your daily functioning. If you are experiencing emotional difficulties or mental health concerns, support is available to you through the Student Counseling Center (SCC). To schedule an appointment, call 210-784-1331 or visit Madla 120 between the hours of 8:00 AM and 5:00 PM.

All mental health services provided by the SCC are free and confidential (as the law allows). The Student Counseling Center provides brief individual and group therapy, crisis intervention, consultation, case management, and prevention services. For more information on SCC services visit the [Student Counseling Services website](#). *Crisis support is available 24/7 by calling the SCC at 210-784-1331 (after-hours select option '2').* The National Suicide Prevention hotline also offers a 24/7/365 hotline at 1-800-273-8255.

Additionally, the TELUS Student Support App provides a variety of mental health resources to including support for in the moment distress, an anonymous peer to peer support network, mental health screenings, podcasts, and articles to improve your mental wellbeing.



Emergency Preparedness: JagE Alert is Texas A&M University-San Antonio's mass notification system. In the event of an emergency, such as inclement weather, students, staff and faculty, who are registered, will have the option to receive a text message, email with instructions and updates. To register or update your information visit: <https://tamusa.bbcportal.com/>. More information about Emergency Operations Plan and the Emergency Action Plan can be found at the [Texas A&M website for Emergency Management](#). Download the SafeZone App (<https://safezoneapp.com/>) for emergencies or call (210) 784-1911. Non-Emergency (210) 784-1900.

Financial Aid and Verification of Attendance: According to the following federal regulation, 34 CFR 668.21: U.S. Department of Education (DoE) Title IV regulation, a student can only receive Title IV funds based on Title IV eligibility criteria which include class attendance. If Title IV funds are disbursed to ineligible students (including students who fail to begin attendance), the institution must return these funds to the U.S. DoE within 30 days of becoming aware that the student will not or has not begun attendance. Faculty will provide the Office of Financial Aid with an electronic notification if a student has not attended the first week of class. Any student receiving federal financial aid who does not attend the first week of class will have their aid terminated and returned to the DoE. Please note that any student who stops attending at any time during the semester may also need to return a portion of their federal aid.

Jaguar Writing, Language, and Digital Composing Center (WLDCC): The Jaguar Writing Center provides writing support to graduate and undergraduate students in all three colleges. Writing tutors work with students to develop reading skills, prepare oral presentations, and plan, draft, and revise their written assignments. The Writing Center has both online and in person appointments. Students can schedule appointments with the Writing Center in JagWire under the student services tab. Students wanting to work in realtime with a tutor can schedule an "Online Appointment." Students wishing to receive asynchronous, written feedback from a tutor can schedule an "eTutoring" appointment. More information about what services we offer, how to make an appointment, and how to access your appointment can be found on [the WLDCC website](#). The Writing Center can also be reached by emailing writingcenter@tamusa.edu.

Meeting Basic Needs: Any student who has difficulty affording groceries or accessing sufficient food to eat every day or who lacks a safe and stable place to live, and believes this may affect their performance in the course, is urged to submit a [CARE report](#) for support. Furthermore, please notify the professor if you are comfortable in doing so. This will enable them to direct you to available resources. A food pantry is available on campus; [the food pantry's hours](#) vary but are available online. Other resources are posted in Blackboard as well.

Military Affairs: Veterans and active-duty military personnel are welcomed and encouraged to visit the Office of Military Affairs for any question involving federal or state VA Education Benefits. Visit the Patriots' Casa building, room 202, or to contact the Office of Military Affairs with any questions at military.va@tamusa.edu or (210)784-1397.

Religious Observances: Texas A&M University-San Antonio recognizes the diversity of faiths represented among the campus community and protects the rights of students, faculty, and staff to observe religious holidays according to their tradition. Under the policy, students are provided an opportunity to make up any examination, study, or course work requirements that may be missed due to a religious observance provided they notify their instructors before the end of the second week of classes for regular session classes.

The Six-Drop Rule: Students are subject to the requirements of Senate Bill (SB) 1231 passed by the Texas Legislature in 2007. SB 1231 limits students to a maximum of six (6) non-punitive course drops (i.e., courses a student chooses to drop) during their undergraduate careers. A non-punitive drop does not affect the student's GPA. However, course drops that exceed the maximum allowed by SB 1231 will be treated as "F" grades and will impact the student's GPA.

Statement of Harassment and Discrimination: Texas A&M University-San Antonio is committed to the fundamental principles of academic freedom, equal opportunity, and human dignity. To fulfill its multiple missions as an institution of higher learning, A&M-San Antonio encourages a climate that values and nurtures collegiality and the uniqueness of the individual within our state, nation, and world. All decisions and actions involving students and employees should be based on applicable law and individual merit. Texas A&M University-San Antonio, in accordance with applicable federal and state law, prohibits discrimination, including harassment, on the basis of race, color, sex, religion, national origin, age, disability, genetic information, veteran status, sexual orientation, gender identity, gender expression, or pregnancy/parenting status. Individuals who believe they have experienced harassment or discrimination prohibited by this statement are encouraged to contact the appropriate offices within their respective units.

Texas A&M University-San Antonio faculty are committed to providing a safe learning environment for all students and for the university as a whole. If you have experienced any form of sex- or gender-based discrimination or harassment, including sexual assault, sexual harassment, domestic or dating violence, or stalking, know that help and support are available. A&M-San Antonio's Title IX Coordinator can support those impacted by such conduct in navigating campus life, accessing health and counseling services, providing academic and housing accommodations, and more. The university strongly encourages all students to report any such incidents to the Title IX Coordinator. Please be aware that all A&M-San Antonio employees (other than those designated as confidential resources such as counselors and trained victim advocates) are required to report information about such discrimination and harassment to the university. This means that if you tell a faculty member about a situation of sexual harassment, sexual violence, or other related misconduct, the faculty member must share that information with the university's Title IX Coordinator (titleix@tamusa.edu, 210-784-2061, CAB 439K). If you wish to speak to a confidential employee who does not have this reporting requirement, you can contact the Student Counseling Center at (210) 784-1331 or visit them in Madla 120.

Pregnant/Parenting Students: Texas A&M-San Antonio does not require a pregnant or parenting student, solely because of that status or issues related to that status, to (1) take a leave of absence or withdraw from their degree or certificate program; (2) limit the student's studies; (3) participate in an alternative program; (4) change the student's

major, degree, or certificate program; or (5) refrain from joining or cease participating in any course, activity, or program at the University. The university will provide such reasonable accommodations to pregnant students as would be provided to a student with a temporary medical condition that are related to the health and safety of the student and the student's unborn child. These could include maintaining a safe distance from substances, areas, and activities known to be hazardous to pregnant individuals and their unborn child; excused absences because of illness or medical appointments; modified due dates for assignments; rescheduled tests/exams; taking a leave of absence; and being provided access to instructional materials and video recordings of lectures for excused absences, if these would be provided to any other student with an excused absence. Pregnant/parenting students are encouraged to contact the Title IX Coordinator with any questions or concerns related to their status (titleix@tamusa.edu; 210-784-2061; CAB 439K).

Texas A&M-San Antonio has also designated the Title IX Coordinator as the liaison officer for current or incoming students who are the parent or guardian of a child younger than 18 years of age. The Title IX Coordinator can provide students with information regarding support services and other resources.

Young Jaguars can support parenting students with daycare if students meet this criteria: (1) must be enrolled in classes at TAMUSA in the current semester, (2) must be Pell eligible or a single parent, (3) child(ren) must be aged 3 to 12-years-old, and (4) child(ren) must be enrolled in Pre-K-3 through 6th grade. For more information, please contact Young Jaguars at youngjaguars@tamusa.edu or call (210) 784-2636.

Students' Rights and Responsibilities: The following statement of students' rights and responsibilities is intended to reflect the philosophical base upon which University Student Rules are built. This philosophy acknowledges the existence of both rights and responsibilities, which is inherent to an individual not only as a student at Texas A&M University-San Antonio but also as a citizen of this country.

Students' Rights

1. A student shall have the right to participate in a free exchange of ideas, and there shall be no University rule or administrative rule that in any way abridges the rights of freedom of speech, expression, petition and peaceful assembly as set forth in the U.S. Constitution.
2. Each student shall have the right to participate in all areas and activities of the University, free from any form of discrimination, including harassment, on the basis of race, color, national or ethnic origin, religion, sex, disability, age, sexual orientation, gender identity, gender expression, and pregnancy/parenting or veteran status in accordance with applicable federal and state laws.
3. A student has the right to personal privacy except as otherwise provided by law, and this will be observed by students and University authorities alike.
4. Each student subject to disciplinary action arising from violations of university student rules shall be assured a fundamentally fair process.

Students' Responsibilities

1. A student has the responsibility to respect the rights and property of others, including other students, the faculty, and administration.
2. A student has the responsibility to be fully acquainted with the published University Student Rules found in the Student Handbook, [Student Code of Conduct](#), on our website, and University Catalog, and to comply with them, as well as with federal, state, and local laws.

3. A student has the responsibility to recognize that student actions reflect upon the individuals involved and upon the entire University community.
4. A student has the responsibility to recognize the University's obligation to provide a safe environment for learning.
5. A student has the responsibility to check their university email for any updates or official university notifications.

We expect that students will behave in a manner that is dignified, respectful, and courteous to all people, regardless of sex, ethnic/racial origin, religious background, sexual orientation, or disability. Conduct that infringes on the rights of another individual will not be tolerated.

Students are expected to exhibit a high level of honesty and integrity in their pursuit of higher education. Students engaging in an act that violates the standards of academic integrity will find themselves facing academic and/or disciplinary sanctions. Academic misconduct is any act, or attempt, which gives an unfair advantage to the student. Additionally, any behavior specifically prohibited by a faculty member in the course syllabus or class discussion may be considered as academic misconduct. For more information on academic misconduct policies and procedures please review the [Student Code of Conduct](#) or visit the resources available in the [OSRR website](#).

Important Dates:

Dates	Event
January 13	Tuition & Fee Payments deadline
January 19	HOLIDAY - Martin Luther King, Jr. – No Classes
January 20	First day of class
February 4	Census date
February 23- March 6	Midterm grading period
March 9-March 14	Spring Break
April 3	Study Day – No classes
April 17	Last day to drop with an automatic “W”
May 1	Last day to drop a course or withdraw from the University
May 4	Last day of classes
May 5	Study Day – No classes
May 6-May 12	Final exams
May 19	Commencement

The complete [academic calendar](#) is available online.

AI Policy: No Use of Generative AI Permitted: MATH1324 assumes that all work submitted by students will be generated by the students themselves, working individually or in groups. Students should not have another person/entity do the writing of any portion of an assignment for them, which includes hiring a person or a company to write assignments and/or using artificial intelligence (AI) tools like ChatGPT. Use of any AI-generated content in this course qualifies as academic dishonesty and violates Texas A&M-San Antonio's standards of academic integrity.