TEXAS A&M UNIVERSITY
SAN ANTONIO

Math For Business and Social Science I-13258-Math 1324-004 (3 Credit Hours)
Texas A&M University–San Antonio
Department of Sciences and Mathematics
Fall 2026

Instructor: Albert Alvarado
E-mail: aalvarado@tamusa.edu
Classroom: Classroom Hall 201
Class Time: TR 11-1:20
Office: Madla 344
Office hours: M 2-2:50, R 12:15-12:50, F 11-11:50
*If you need to meet outside of Office Hours communicate with me before or after class or through email and we can arrange additional times/modes to meet. Depending on times office locations may vary. Refer to Blackboard page.

Corequisite: As part of Math1324, students are required to attend weekly corequisite sessions as an extension to Math For Business and Social Science I. In weekly corequisite sessions, you will review the material, provided in-class assignments and/or participation exercises, & answer questions on the material covered in class & homework problems.

COURSE DESCRIPTION & MATERIALS:

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. Prerequisite: Evidence of math equivalent to High School Algebra II ('C' or above) or placement.

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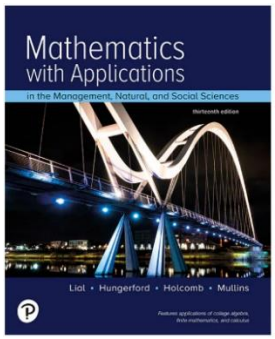
Required E-Textbook: Online access code for *Mathematics with Applications In the Management, Natural & Social Sciences,* 13th ed., Lial, Hungerford, Holcomb, 2024, Pearson Addison-Wesley, ISBN-9780137892198; ISBN-9780137891870 (E-book included with access code). Optional: Students can purchase a loose-leaf version of text for a low cost if desired (check bookstore).



Instructions to Access MyMathlab and E-Textbook: Your homework and quizzes are found in MyMathlab. This has already been paid for through your tuition and you should not purchase an account. Please follow the steps below to gain access Mymathlab.

1) Go to Blackboard and select the Brytewave link and copy your access code.
2) On Blackboard select the Pearson link and register for MyMathlab. When prompted for an access code paste your access code and this will serve as your payment. Please create a username with the same first and last name that you registered with through the University. You are registered!

Calculator Policy: Students will use non-graphing calculators. The TI 36 XPro is recommended.

Student Learning Outcomes: 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

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.

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

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

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

COURSE WORK & GRADE DISTRIBUTION:

Participation: Active participation & cooperation in class is essential for your success as an individual student & our success as a class. You will participate in group work & may be asked to present to the class. If you miss class, you are responsible for finding out what you missed on that day. You are welcome to ask questions on the topics that you missed; however, it is your responsibility to learn the material. Participation tasks may not be made up.

Homework: Homework will be in two parts. One part on-line with MyMathLab (MML). All due dates are listed in MML. You can complete the assignments until 11:59pm of the due date listed. The homework may be attempted multiple times in order to increase your homework grade. The other part is to be collected at the beginning of the day of the exams (see daily schedule). It will **not** be graded for correctness but examined for completeness & given a grade based on that. Please do not crowd the problems on the pages, leave plenty of space between problems. Please put the section number to each exercise.

Worksheets: Worksheets will be enrichment exercises that are to be done outside of the classroom to help understand the topics covered in class. They will be turned in mostly during recitation class and will not be accepted late. The worksheet grade will be the sums of the best 10 worksheets to achieve the 100 points.

Quizzes: The quiz questions will come from topics covered in lecture and assigned homework. For each exam, there's one take-home quiz, one in-class quiz and one on-line quiz that is due the day of the exam. I suggest taking it before the exam as a way to help you study.

Exams: There will be three in class exams. All exams are closed books and closed notes to be completed during class time. The format of the exams will be discussed the day before each exam. I am NOT out to trick you! If you come to lecture (and pay attention, of course) and do the assigned homework you should do well on the exams. There may be a random check of calculators. If the student is found with inappropriate material on the calculator they are using, the student will receive a 0 on the test

Final Exam: In order to pass this class, students *must* take a comprehensive final exam scheduled during Finals Week. Finals cannot be rescheduled or missed (for dire & unforeseen medical or family emergencies, students must consult with me). 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.**

Course Objectives: That student should perform at a 70% or better average on exams, homework, class participation, worksheets and quizzes covering the topics listed in the course description and those topics included in the daily schedule.

Evaluation of Student Performance: Course grades are based on 100 total points earned:

Quizzes: 10%
Assignments: 10%
Exam 1: 25%
Exam 2: 25%
Final Exam: 30%

Course grades based on percentage:

A: 90-100%
B: 80-89.9%
C: 70-79.9%
D: 60-69.9%
F: < 60%.

COURSE REQUIREMENTS & EXPECTATIONS

Class Attendance: Students are expected to attend lectures for this course. 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.

Gradebook: The gradebook in Blackboard is updated after each exam. In addition to checking the grades in BB, you will receive a progress report after each exam to compare your grades with. Please keep your graded material until the end of the semester and inform your instructor of any discrepancies either in BB or on the progress report in a timely matter.

Make-up Policy: There are no make-up for daily quizzes, rather the two lowest of these will be dropped. You are expected to always be present for major exams. Exams must be taken on the date specified. **No make-up exams will be given**. However, the lowest of the three regular exams may be replaced by the final exam score. Extenuating circumstances that may force a student to miss a test should be discussed with the instructor immediately, if possible before the scheduled test date.

Dropping the Course: It is the student's responsibility to drop a course. The instructor may not automatically drop you. Please check the academic calendar webpage of TAMU-SA for the last day to drop a course or withdraw from the university. Please contact the Welcome Center at 784-1300 if you desire to drop the course.

Blackboard: Students are responsible for checking Blackboard regularly for announcements, assignments, & other support materials posted there. However, students are also responsible for all announcements & assignments which are given in the classroom. Please use my TAMUSA e-mail if you need to communicate with the instructor about the lecture.
NOTE: There will NOT be an extra credit assignment, please DO NOT asks for it at the end of the semester. Start studying today! You have enough time to get the perfect grade. To be successful in this course, take responsibility for your learning & plan to study at least 2 hours for each class hour. Do not get behind; do not hesitate to ask for help. Make good use of the resources that are available to you, especially your book & your instructor. Save all your graded assignments, exams & quizzes until you receive your final grade.

Communication etiquette: When using Jaguar email, please employ professional writing skills, Correspondence should begin with an appropriate salutation including the professor's academic title with last name and end with an appropriate closing with the student's full name. (Once a thread has been established, it may not be necessary to use a salutation or your full name each time.) The body of the correspondence should always demonstrate good spelling, grammar, punctuation, and general courtesy. Correspondence that does not adhere to these standards will receive an automatic reply of *Please see syllabus information on communication etiquette*. Email is monitored Monday-Friday during standard business hours. Please allow at least two business days for email replies.

CLASS RULES

1. Regular participation and attendance is VERY IMPORTANT in this class! You are enrolling in a THREE 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 would be disastrous for this three hour course! Homework from the textbook is never late—it will be accepted until the day of the final; however, you should be doing on-line homework as soon as possible after it's covered during lecture. Failure to complete work will result in lower grades.
2. An absence in this online course is defined as the following: Not attending an online lecture at the scheduled time. You will receive a participation grade based on our online meetings. Every day missed will result in a deduction from your participation points.
3. You should be doing homework, worksheets, and/or quizzes daily. Optional activities such as study plan or videos do not satisfy the participation requirement. To be counted as "participating", you must attend class and be involved by taking notes, asking questions and working on classroom exercises. If needed, seek help so that you can re-try homework in order to get your grades up.
4. Please do not ask me to extend the due dates. If a problem arises, please contact me so I can work with you. Work ahead on the assignments whenever possible (remember… if something can go wrong, it will).
5. If you need additional help, please ask! Your instructor is available to help both in-class & during office hours, and students also have access to free online tutoring through Jaguar Tutoring in the ALC. I will be available online every day, Mon - Fri. either during office hours or through email: amain@gmail.com

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 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:

	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) and are not part of a student's academic or university record. 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 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 here. 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 by the published Census Date (the first week of class). Any student receiving federal financial aid who does not attend prior to the published Census Date (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 as well as faculty and staff. Writing tutors work with students to develop reading skills, prepare oral presentations, and plan, draft, and revise their written assignments. Our language tutors support students enrolled in Spanish courses and students composing in Spanish for any assignment. Our digital studio tutors support students working on digital projects such as eportfolios, class presentations, or other digital multimedia projects. The Writing Center offers face-to-face, synchronous online, and asynchronous digital appointments. Students can schedule appointments with the Writing Center in JagWire under the Student Services tab. Click on "Writing, Language, and Digital Composing Center" to make your appointment. 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 our 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; click here for hours and contact information.

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 on our campus and 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, or pregnancy/parenting status. Individuals who believe they have experienced harassment or discrimination prohibited by this statement are encouraged to contact the University's Civil Rights Officer at 210-784-2061 or titleix@tamusa.edu.
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 based on sex, 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 sex-based 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.

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

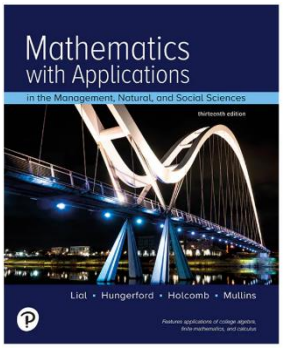
We expect that students will behave in a manner that is dignified, respectful, and courteous to all people, regardless of sex, ethnic/racial origin, religious background, sexual orientation, or disability. Conduct that infringes on the rights of another individual will not be tolerated.

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 Fall 2026 Dates:

Dates	Event
August 20	Tuition & Fee Payments deadline
August 24	First day of class
September 7	Labor Day Holiday – No Classes / University Closed
September 9	Census Date – Students not paid in full or enrolled in a payment plan by 4:59 pm may be dropped for non-payment
October 5 – October 16	Midterm grading period
November 13	Last day to drop with an automatic "W"
November 25	Study Day – No classes
November 26-November 28	Thanksgiving Holiday – No Classes / University Closed
November 30	Last day to drop a course or withdraw from the University
December 4	Last day of classes
December 5 – December 11	Final exams
December 15	Commencement

The complete academic calendar is available online



Textbook Sections: *Mathematics with Applications In the Management, Natural & Social Sciences,* 13th ed., Lial, Hungerford, Holcomb, 2024

Section	Table of Contents
2.1	Graphs
2.2	Equations of Lines
2.3	Linear Models
2.4	Linear Inequalities
2.5	Polynomial and Rational Inequalities
3.1	Functions
3.2	Graphs of Functions & Transformations
3.3	Applications of Linear Functions
3.4	Quadratic Functions & Applications
3.5	Polynomial Functions
3.6	Rational Functions
3.7	Composition of Functions
4.1	Exponential Functions
4.2	Applications of Exponential Functions
4.3	Logarithmic Functions
4.4	Logarithmic and Exponential Equations
5.1	Simple and Compound Interest
5.2	Annuities, Future Value, and Sinking Funds
5.3	Consumer Loans and Amortization
5.4	Bonds and Treasury Bills
6.1	Systems of Two Linear Equations in Two Variables
6.2	Larger Systems of Linear Equations
6.3	Applications of Systems of Linear Equations
6.4	Basic Matrix Operations
7.1	Graphing Linear Inequalities in Two Variables
7.2	Linear Programming: The Graphical Method
7.3	Applications of Linear Programming
7.4	The Simplex Method: Maximization
7.5	Maximization Applications
7.6	The Simplex Method: Duality and Minimization
7.7	The Simplex M
8.1	Sets
8.2	Applications of Venn Diagrams and Contingency Tables
8.3	Introduction to Probability
8.4	Basic Concepts of Probability
8.5	Conditional Probability and Independent Events
8.6	Bayes' Formula
9.1	Probability Distributions & Expected Value
9.2	The Multiplication Principle, Permutations, and Combinations
9.3	Applications of Counting
9.4	Binomial Probability
9.5	Markov Chains
9.6	Decision Making
10.1	Frequency Distributions
10.2	Measures of Center
10.3	Measures of Variation and Boxplots
10.4	Normal Distributions

Schedule of Topics

WEEK	Sections	TOPICS
1 Aug 24	2.1-2.3	2.1 Graphs 2.2 Equations of Lines 2.3 Linear Models
2 Aug 31	3.1-3.3	3.1 Functions 3.2 Graphs of Functions & Transformations 3.3 Applications of Linear Functions
3 Sept 7	3.4-3.5	3.4 Quadratic Functions & Applications 3.5 Polynomial Functions
4 Sept 14	3.6-3.7	3.6 Rational Functions 3.7 Composition of Functions
5 Sept 21	Review/ Test 1	Review **Test 1 Friday September 25th**
6 Sept 28	4.1, 4.2	4.1 Exponential Functions 4.2 Applications of Exponential Functions
7 Oct 5	4.3-4.4	4.3 Logarithmic Functions 4.4 Logarithmic and Exponential Equations
8 Oct 12	5.1-5.4	5.1 Simple and Compound Interest 5.2 Annuities, Future Value, and Sinking Funds 5.3 Consumer Loans and Amortization 5.4 Bonds and Treasury Bills *
9 Oct 19	6.1-6.4	6.1 Systems of Two Linear Equations in Two Variables 6.2 Larger Systems of Linear Equations 6.3 Applications of Systems of Linear Equations 6.4 Basic Matrix Operations
10 Oct 26	7.1-7.3	7.1 Graphing Linear Inequalities in Two Variables 7.2 Linear Programming: The Graphical Method 7.3 Applications of Linear Programming
11 Nov 2	Review Test 2	Review **Test 2 Friday November 6th**
12 Nov 9	8.3-8.6	8.3 Introduction to Probability 8.4 Basics of Probability 8.5 Conditional Probability and Independent Events 8.6 Bayes' Formula*
13 Nov 16	9.1-9.4	9.1 Probability Distributions & Expected Value 9.2 The Multiplication Principle, Permutations, and Combinations 9.3 Applications of Counting 9.4 Binomial Probability
14 Nov 23	10.1-10.2	10.1 Frequency Distributions 10.2 Measures of Center
15 Nov 30	10.3-10.4 Review	10.3 Measures of Variation and Boxplots 10.4 Normal Distributions Review all previous sections for Final Exam.
16	Final	**Final Exam** **Tuesday 12/8 12-1:50 pm**

NOTE: The instructor reserves the right to make changes to the syllabus as needed. If changes are made, you will be notified of the changes in class, posted on Blackboard, or by your university e-mail address.