

MATH 1350 Fundamentals of Mathematics I

Texas A&M University–San Antonio

Department of Computational, Engineering,
and Mathematical Sciences

Spring 2025



TEXAS A&M UNIVERSITY
SAN ANTONIO

Instructor Info

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Office: Hall 334

Office hours:

M 3 - 5 p.m. || W 2 - 4 p.m.

Important websites

[Department Website](#)

Grading scheme

Exams ($2 \times 20\%$) 40%

Final Exam 30%

Final exam is comprehensive.

Quizzes* 20%

Online Homework* 10%

Total 100%

(* lowest dropped

Important dates

Exams

Feb. 26 Apr. 16

Final May 12

Course Description

Study of the concepts of sets, functions, numeration systems, number theory, and properties of the natural numbers, integers, rational, and real number systems with an emphasis on problem solving and critical thinking.

Prerequisites MATH 1314 College Algebra or equivalent

Textbook and Required Materials

Online access code for Long, DeTemple, Millman, Mathematical Reasoning for Elementary Teachers (7th ed.), Pearson, ISBN-13: 978-0321900999 with MyMathLab

- ◆ 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.

Calculators A scientific non-graphing, non-programmable calculator is required; TI-30XIIS is recommended. No cell phones or graphing calculators will be allowed on exams, and online math utilities (e.g., Desmos) are also not allowed.

Student learning outcomes

Upon completion of this course, students will be able to:

1. Interpret and apply Venn diagrams, elementary set terminology and functions in solving problems and in representing mathematical relationships.
2. Demonstrate an understanding of the structure of our base-10 system and various other numeration systems including positional and additive systems.
3. Demonstrate an understanding of elementary number theory and its application to arithmetic and problem solving.
4. Demonstrate standard arithmetic algorithms.
5. Relate the course content to the teaching and learning of mathematics in the elementary school classroom.

MATH 1350 helps students develop Critical Thinking, Communication, and Empirical and Quantitative Skills by focusing on student understanding of essential mathematical concepts for secondary teachers to include recognizing, identifying, solving, analyzing and explaining applications in elementary educational settings.

List of topics

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

- ◆ Problem Solving
- ◆ Patterns
- ◆ Algebra
- ◆ Reasoning
- ◆ Sets
- ◆ Addition/Subtraction of Sets
- ◆ Multiplication/Division of Sets
- ◆ Non-Decimal Systems
- ◆ Numeration Systems
- ◆ Add & Subtract Algorithms
- ◆ Multiplication Algorithms
- ◆ Division Algorithms
- ◆ Mental Computation
- ◆ Divisibility
- ◆ GCF & LCM
- ◆ Add & Subtract Integers
- ◆ Multiply & Divide Integers
- ◆ Basic Concepts of Fractions
- ◆ Add & Subtract Fractions
- ◆ Multiply & Divide Fractions
- ◆ Decimals and Real Numbers
- ◆ Computations with Decimals
- ◆ Proportional Reasoning

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

Grading policy

The final course grade for both MATH 1350 is calculated as follows:

Exams (2 × 20%)	40%	
Final Exam	30%	
Final exam is comprehensive.		
Quizzes*	20%	
Online Homework*	10%	
<hr/>		
Total	100%	
(*) lowest score dropped		
		A
		B
		C
		D
		F
		90-100
		80-89
		70-79
		60-69
		0 - 59

Class policies and expectations

Class Attendance

Students are expected to attend lectures. Be aware of what has been covered in every class, including 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 the student’s responsibility to learn the material.

Midterm Exams (40% total)

There will be two proctored midterm exams during the semester and one final exam. Students are expected to schedule their exams to be taken at the testing center. 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 doctors note, death in the family documented with a copy of the death notice, attending university-sponsored events with a Deans excuse, etc. Minor headaches or attending sports events (without Deans excuse) are not examples of emergency situations.

Final exam (30%)

In order to pass this class, students must take the comprehensive final exam scheduled during Finals Week. The exam will cover topics from throughout the semester. Final exams cannot be rescheduled or missed (for dire and unforeseen medical or family emergencies, students must consult with me). The final exam will be taken in class.

Quizzes and labs (20%)

A combination of group and individual quizzes will be given throughout the semester. Your top eight scores will count towards your grade. There will be no make-up quizzes or labs.

Online homework (10%)

Homework will be assigned regularly with MyMathLab (MML). All due dates are listed in MML. The exercises can be attempted multiple times in order to increase the grade. MyMathLab can be accessed through a link on the Blackboard page or directly at mlm.pearson.com. You will need an access code that has been sent to you via Brytewave. Please check your student email OR look for the Brytewave link in your Blackboard course to find your access code. Read the announcements in Blackboard for all instructions.

MyMathLab Graded Homework Due Dates

All due dates are listed in MML. You can complete the assignments until 11:59 pm of the due date listed. No late assignments will be accepted nor make-ups allowed.

Class rules

1. Regular participation and attendance is VERY IMPORTANT in this class! You are enrolling in a course designed to train future educators to teach Mathematics, 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 foundational course!! Your instructor may give unannounced assignments during class.
2. Please do not ask me to extend the due dates. Work ahead on the assignments instead (remember if something can go wrong, it will).
3. If you need additional help, please ask! Your instructor is available to help, and students also have access to free tutoring through Jaguar Tutoring in the ALC, located in the Central Academic Building, second floor. I will be available during office hours or by appointment. Contact me by email at eduran@tamusa.edu.

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.

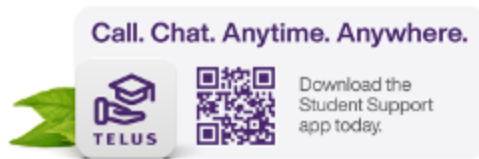
Academic Accommodations for Individuals with Disabilities Texas A&M University-San Antonio is committed to providing all students with reasonable access to learning opportunities and accommodations in accordance with The Americans with Disabilities Act, as amended, and Section 504 of the Rehabilitation 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 <https://www.tamusa.edu/Disability-Support-Services/index.html> 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 a.m. - 6 p.m.	9 a.m. - 5 p.m.
Tuesday	8 a.m. - 6 p.m.	9 a.m. - 5 p.m.
Wednesday	8 a.m. - 6 p.m.	9 a.m. - 5 p.m.
Thursday	8 a.m. - 6 p.m.	9 a.m. - 5 p.m.
Friday	8 a.m. - 5 p.m.	11 a.m. - 4 p.m.

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 tamusa.edu/studentcounseling. 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. 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: <https://www.tamusa.edu/about-us/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.

Writing, Language, and Digital Composing Center 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 On-line 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 at <https://www.tamusa.edu/student-resources/writing-center/index.html>. 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 referral at

<https://www.tamusa.edu/university-policies/Student-Rights-and-Responsibilities/file-a-report.html>

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; see <https://www.tamusa.edu/university-policies/Student-Rights-and-Responsibilities/file-a-report.html> 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 students GPA. However, course drops that exceed the maximum allowed by SB 1231 will be treated as F grades and will impact the students 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 students studies; (3) participate in an alternative program; (4) change the students 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 students 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.

No Use of Generative AI Permitted MATH 1314 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.

Important dates The complete academic calendar is available online: [The complete academic calendar is available online: https://www.tamusa.edu/academics/academic-calendar/index.html](https://www.tamusa.edu/academics/academic-calendar/index.html) .

August 26	First day of class
September 2	Labor day holiday
November 11	Last day to drop with an automatic "W"
November 19	Last day to drop or withdraw from the university
November 27	Study day – no classes
November 28-30	Thanksgiving Holiday – no classes
December 5	Last day of classes
December 6	Study day – no classes
December 7-13	Final exams

Students' Rights and Responsibilities 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 (

<https://www.tamusa.edu/university-policies/student-rights-and-responsibilities/documents/Student-Handbook-2022-23.pdf>

or visit the resources available in the OSRR website

<https://www.tamusa.edu/university-policies/student-rights-and-responsibilities/academic-integrity.html>.

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.