



**Math 2312 Precalculus Recitation, Sections 301
Spring 2026**

Instructor:	Dr. Nadeem Malik
Section 301 Meets	T 11:00 – 11:50 Classroom Hall 307
Office Hours:	By appointment via email
Email:	nmalik@tamus.edu

COURSE DESCRIPTION & MATERIALS:

Catalog Description: In-depth study & applications of polynomial, rational, radical, exponential & logarithmic functions, & systems of equations using matrices. Additional topics such as sequences, series, probability, & conics may be included. This course meets the standards for the Mathematics category of courses under the core curriculum. 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.

Required Textbook: Pre-Calculus Essentials by Robert F. Blitzer, 6th Ed., with MyMathLab, Pearson Publishing, 2022, ISBN 9780136906551. (E-book package as part of course registration). Note: Students can purchase a loose-leaf version of text for a low cost if desired (check bookstore). The course ID is accessible through Blackboard.

Calculator Policy: A scientific non-graphing, non-programmable calculator is required; **TI-30XIIS is recommended.** Calculators may not be shared. **NOTE:** Laptops, cell phone, & other mobile devices are NOT acceptable calculators.

Student Learning Outcomes: MATH 2312 helps students develop critical thinking, communication, and empirical and quantitative skills by focusing on student understanding of key mathematical concepts required for calculus readiness to include recognizing, identifying, solving, analyzing and explaining appropriately model applicable real -world situations.

Upon completion of this course, students will:

1. Demonstrate understanding and knowledge of properties of functions from graphical, tabular, symbolic, or verbal representations.
2. Identify and apply appropriate strategies for solving equations involving algebraic, transcendental, and trigonometric functions.
3. Interpret and apply graphing techniques to algebraic and transcendental functions.
4. Compute and apply the values of trigonometric functions for key angles in all quadrants of the unit circle measured in both degrees and radians.
5. Prove and apply trigonometric identities.
6. Interpret and solve applications related to right and oblique triangles.

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

1. Functions and relations
2. Inverse functions
3. Exponential and logarithm functions, and their properties
4. Exponential and logarithmic equations with applications

5. Angles and their measures
6. Trigonometric functions and right triangle trigonometry
7. Trigonometric functions of any angle
8. Graphs of sine and cosine and other trigonometric functions
9. Inverse trigonometric functions
10. Trigonometric identities
11. Trigonometric equations
12. The laws of sines and cosines

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. 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.

Homework: Homework will be in MyMathLab (MML). All due dates are listed in MML. You can complete the assignments until 10:59 pm of the due date listed (normally the Sunday after each lecture is completed). The homework may be attempted multiple times in order to increase your homework grade.

Reading Quizzes: A Reading Quiz will be assigned approximately 24 hours prior to each lecture. The quiz will be over a specific section of the Blitzer textbook. Reading quizzes are open book and open notes with 60 minutes authorized to complete the quiz. Each reading quiz is worth 5 points.

Exams: There will be two in-class exams. All exams are closed books and closed notes to be completed during class time. 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 the instructor).

Exam Schedule:

Exam	MATH 2312.301 (MW)
Exam 1	25 February
Exam 2	1 April
Final Exam	Tuesday, 12 May 12-1:50

(The above dates are subject to change at the discretion of the instructor. Every effort will be made to give students at least one week of warning if an exam date must be changed.)

Note: All review exercises and exams are *cumulative*. You can expect questions to cover material from the first day of the course to the day before the quiz or exam.

GRADING POLICY

Scoring:

category	number	points each	drops	total
Homework (in MML)	20	5	3	85
Reading Quiz	14	5	3	55
Hour Exams	2	100	0	200
Final Exam	1	100	0	100
			Total	440

(All numbers above are approximate and subject to adjustments.)

Grade Scale for MATH 1332: 90 – 100% = A; 80 – 89% = B; 70 – 79% = C; 60 – 69% = D Below 60% = F

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

COURSE REQUIREMENTS & EXPECTATIONS

Class Attendance: Attending class is **mandatory**. To be counted present, the student must be in class and must have submitted all due assignments.

Gradebook: The official gradebook will be a spreadsheet in a Blackboard folder, NOT the Blackboard “My Grades” link.

Make-up Policy: There are no make-ups, however low scores in each category except exams will be dropped. You are expected to always be present for exams. Exams must be taken on the date specified. **No make-up exams will be given.**

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 the professor's TAMUSA e-mail if you need to communicate with the instructor.

NOTE: There will NOT be an extra credit assignment, please DO NOT ask 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.

Electronic Devices: The use of phones or other electronic devices for non-class related activities is not allowed. Anyone who is observed text messaging or using an electronic device during class for a non-class related purpose will be given a warning, and as a further action that person will be asked to drop the class. Devices should be turned off and put away during exams & quizzes.

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! Failure to complete work will result in lower grades.
2. 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 “present”, you must attend class and complete all assigned work.
3. 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.

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@tamus.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@tamus.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@tamus.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 support in the moment of distress, including 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 the [Emergency Notifications page](#). 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](#) 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 real-time 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@tamus.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@tamus.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.

Syllabus is pending since it has yet to be furnished by the university administration.