

Pre-Calculus Syllabus 2023-2024

Instructor: Jose F. Trevino
Room: D207
Conference Period: 8th
Email: jtrevino@bisd.us

School: Rivera Early College Highschool
Weebly: <http://jtmath.weebly.com>
School Phone: 831-8700

Course Description

In this course, the students will be exposed to in depth factoring techniques of polynomials and extended and diverse methods that will assist in simplifying algebraic expressions. After covering the fundamentals of algebra, the students will be introduced to the list of topics covered in the course outline. As an Honors course, the expectations are much higher compared to a regular class, therefore, the instructor will provide the students with extra assignments that will enrich the lessons and will complement the curriculum. Honors students will face rigor and challenge when learning these topics. For the most part, students will be encouraged to not be calculator dependent and the instructor will encourage the arithmetic procedures to be carried out mentally or by using number sense techniques.

Course Outline

TOPICS TO BE COVERED:

1st Semester

1st Six Weeks

Algebra fundamentals: factoring and simplifying. Algebra and Linear function review

Characteristics and Applications of Functions. Functions and their Graphs

2nd Six Weeks

Transformations, Compositions, and Inverses of Functions

Polynomial Functions and Applications

Rational Functions and Applications

3rd Six Weeks

Exponential and Logarithmic Functions and Applications

2nd Semester

4th Six Weeks

Introduction to Trigonometry

Trigonometric Functions and Graphs

Inverse Trigonometric Function

Law of sines and law of cosines

5th Six Weeks

Trigonometric Equations, Identities, and Proofs
Sum and Difference Identities

6th Six Weeks

Parabolas, Ellipses, Hyperbolas and Circles
Polar and rectangular Equations

Supplies

Spiral Notebook for class
Pencils

Notebook:

Spiral notebook for Teacher Notes – **The students will write down ALL teachers notes daily**. Daily work grade or quiz grade upon teachers request.

Daily Work – Every day, students will write down teachers' notes. Have date and title. A clean and well organized notebook will speak greatly about your efforts in my class.

Grading and Make-Up Policy

6 Week Average: 60% Tests and Quizzes
 40% Daily Work(Notes), Homework, etc...

MAKE UP WORK:

1. No student will be refused an opportunity to make up work if he/she is absent. The student will be given the same number of days as the number of days he/she was absent to turn in the work.
 2. A student must make arrangements for make up work on the day he/she returns to school. The teacher and student can decide when work is due.
 3. Students absent only on a known test day will be expected to take a test upon return. If any student has been absent the day prior to an announced test and if nothing new has been covered, the student will be expected to take the test at the regularly scheduled time. If the student has been absent two or more days, the student will immediately make arrangements with the teacher for the make up tests.
 4. Any student who does not appear for a prearranged make-up test or does not meet his prearranged due date for other work may receive a zero (0) on that test, work, or retesting.
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1. Retesting will take place upon student failure and **student request** except for research papers, major projects and semester exams. It is the student's responsibility to make arrangements for the retest. No retests are available for semester exams or for students who received a "0" for cheating.
 2. The student must schedule the retest **within 1 week** of receipt of the failing grade, except under extenuating circumstance determined by the principal.
 3. The student may only raise his/her score to a maximum of 70 by taking the retest. A few extra points can be awarded at the teacher's discretion.
 4. A student may be retested more than one time for any given original major assessment.
 5. Retesting Procedures apply to all students.

LATE WORK:

1. If a student submit assignments late the teacher will penalize the score of such assignment. The maximum grade that could be obtained will be an 80 assuming everything is correct. A few extra points can be awarded at the teacher's discretion

CHEATING:

1. Cheating is interpreted as a procedure which involves the unauthorized giving or receiving of help, offering or seeking aid, or the use of material prepared in advance for use on an assessment. Cheating also involves books or notes in any form being used during an examination without the permission of the teacher. The penalty is a "0" on that work, and a failure for the semester [which will be recorded as a zero (0) in the teacher's grade book] if cheating occurs a second time during the same semester.

2. The statement "The penalty is a zero "0" on that work" is interpreted to mean the actual work that the student cheated on by itself or that the student had access to during the examination at the time the student was caught cheating. Retesting will not be allowed in this situation.

3. Plagiarism (the stealing and passing off/presenting as new, original and one's own idea or product derived from an existing source) is cheating.

4. A test given in parts and which the student has not had access to at the time he/she was caught cheating is not intended to mean "on that work"

Classroom Expectations

1. Come to class prepared to work with required supplies and assignments.
2. Behave in a way that allows teaching and learning to take place. (Talking, out of seat, off-task, not following directions, and being disruptive will not be allowed)
3. Be in assigned seat when the tardy bell rings.
4. Respect all students, teachers, adults, and property of others.
5. Attend school daily.
6. Follow the **BISD** code of conduct/dress code.
7. The student will take notes in the classroom.
8. The use of MP3 players, Cell Phones , etc. will not be allowed in Class. Items will be picked up and turned into the office.

Consequences

1. Redirect
2. Verbal Warning
3. Teacher/Student Conference
4. Parent Call/Parent Conference
5. Office Referral

We acknowledge that we have received a copy of the class syllabus and are responsible for reading this document in its entirety in order to understand the teachers' expectations. We understand that my child will be held accountable for their behavior and will be subject to the disciplinary consequences outlined in this syllabus.

Student's Name (Please print)

Parents Signature

Student I.D. Number

Teacher