



Precalculus

Course Syllabus 2023-2024

Mrs. Triplett, Instructor

Room Number: 303

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5th Period Planning

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Course Description

Pre-Calculus focuses on standards to prepare students for a more intense study of mathematics. The critical areas organized in eight units delve deeper into content from previous courses. The study of circles and parabolas is extended to include other conics such as ellipses and hyperbolas. Trigonometric functions are introduced and developed to include inverses, general triangles and identities. Matrices provide an organizational structure in which to represent and solve complex problems. Students expand the concepts of complex numbers and the coordinate plane to represent and operate upon vectors. Probability rounds out the course using counting methods, including their use in making and evaluating decisions. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

Course Outline: The Pre-Calculus curriculum is composed of 7 units.

Units of Study	Time Length
Unit 1: Modeling with Rational and Piecewise-Defined Functions	5 Weeks
Unit 2: Modeling with Trigonometric Expressions and Functions	6 Weeks
Unit 3: Applying Trigonometric Identities and Equations	5 Weeks
Unit 4: Modeling with Conic sections and Polar Equations	5 Weeks
Unit 5: Modeling with Vector Quantities	5 Weeks
Unit 6: Modeling with Sequences and Series	5 Weeks
Unit 7: Culminating Capstone Unit	1-2 Weeks

Evaluation

Summative Assessments (Tests) 40%	Unit Tests Quizzes
Formative Assessments (Primary classwork) 60%	Homework Classwork Daily Discussion
Midterm and Final 20% of the student's math average.	Semester 1 and Semester 2

Grading Scale: A= 100-90, B=89-80, C=79-75, D=74-70, F=69-0

The primary goal is to meet the developmental needs of each student; therefore, student progress should be monitored using Infinite Campus. This tool is available for parents and students to quickly access students' grades and attendance (see the Registrar, Mrs. Jenkins for details).

NOTES: If you know that your child struggles in Mathematics, please arrange to ensure that your child receives additional assistance. DO not wait too late to attend to your child's needs! If you have any questions at any time, please feel free to contact your child's math teacher via Remind or email.

The teacher reserves the right to adjust the syllabus to meet the needs of the students. The syllabus made to be changed for student accommodation or educational requirements.

Course Assessment:

Tests are at the end of each chapter and unit.

Quizzes are at the end of each big idea and standards.

Five Attributes to Success in my Classroom

- **Determination**
- **Respect**
- **Integrity**
- **Personal Courage**
- **Honor**

Classroom Procedures & Expectations

1. Log into Canvas and complete your daily discussion every day at the designated class time.
2. Once you have completed your response to the daily discussion question start the notes part of the lesson highlighted on the board.
3. There is no disrespecting classmates or teachers.
4. There is no "I can't not do this" attitude allowed.
5. During assessments you are to not to leave the testing window and have integrity.
6. During class work, raise your hand, and I will acknowledge you to allow you to speak. Please be patient and I will answer your question.
7. If you are absent, it is your responsibility to check canvas to see which assignments you missed. It is your responsibility to complete the assignments within five days before losing points.
8. Do not leave or interrupt classmates or teacher during whole class instruction.