

PRECALCULUS

Syllabus

James Clemens High School
11306 County Line Road
Madison, AL 35756

Teachers:

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I. **Course Description:**

This is a college-preparatory course with a rigorous intensity and pace intended for highly motivated students who have successfully completed Algebra II with Trigonometry. A variety of topics are reviewed and expanded upon, including trigonometry, complex numbers, functions, graphing and logarithms. Many topics are combined to explore new areas such as polar coordinates, polar graphing, conic sections, vectors, matrices, polynomial theory and induction proofs. Graphing is studied in-depth to determine properties of functions. Limits and derivatives are introduced. Many other areas are covered to give the college-bound student a basis for calculus. Graphing calculator use is encouraged. Additional information for this course can be found on the Alabama Department of education website.

<https://docs.alsde.edu/documents/54/1%202010%20Alabama%20Mathematics%20Course%20of%20Study.pdf>

II. **Course Objectives:**

To enable students to comprehend the objectives mandated by the state for this course and to build a strong foundation for Calculus.

III. **Classroom Expectations:**

Classroom Rules and Procedures:

1. Jet Core Values: Live to: Be Respectful, Be Responsible, Be Resourceful.
2. Pencils are preferred by ALL math teachers.
3. **Work must be shown to receive credit.**
4. All school rules in the student handbook will be enforced. This includes Dress Code, device, and Tardy Policies.
5. Students are responsible for arriving in class on time and prepared to learn with required notebooks, books, pencils, and assignments.

Accommodations:

Requests for accommodations for this course or any school event are welcomed from students and parents.

Concerning laptop utilization:

1. Student laptops should not be hard wired to the network or have print capabilities.
2. Use of discs, flash drives, jump drives, or other USB devices will not be allowed on Madison City computers.
3. Neither the teacher, nor the school is responsible for broken, stolen, or lost laptops.
4. Laptops and other electronic devices will be used at the individual discretion of the teacher.

IV. **Grading Policy:**

Test grades will account for 70% of the 9-weeks grade, with the remaining 30% being determined by quiz/daily grades. The grading scale is as follows: A (90-100), B (80-89), C (70-79), D (65-69), and F (below 65). Grades will be a reflection of mastery of the standards. Make sure all absences are excused as class work can be made up and graded for excused absences only. The Final Exam counts for 1/5 of final grade.

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V. Make-up Test Policy:

To be taken during Refuel time.

VI. Text book:

Precalculus Enhanced with Graphing Utilities, Pearson, ISBN # 978-0-13-283186-4

VII. Materials and Supplies Needed:

For students use

1. Mechanical Pencils
2. 3 Ring Binder (2 inch)
3. Notebook Paper
4. Graph Paper
5. Graphing Calculator (recommended)

To give to teacher

6. Pack of Copy Paper (white or colored)
7. Box of Pencils
8. Box of Tissues
9. Hand Sanitizer
10. 4 pack of Expo Markers/Erasers

Course Outline:

MODULE 1:

- Unit 1: Trigonometric Functions (2.5 weeks)
- Unit 2: Vectors and Parametric Equations (1.5 weeks)
- Unit 3: Complex Numbers and Polar Graphing (1.5 weeks)

MODULE 2:

- Unit 4: Conics (1.5 weeks)
- Unit 5: Probability and Statistics (1.5 weeks)

MODULE 3:

- Unit 6: Functions (2.5 weeks)
- Unit 7: Exponential and Logarithmic Functions (2 weeks)

MODULE 4:

- Unit 8: Rational Functions (2 weeks)
- Unit 9: Limits and Derivatives (2 weeks)

Dear Parent/Guardian,

I look forward to having a great year! I feel fortunate to have your student in PreCalculus this semester and hope that you will contact me should you have any concerns about the progress of your student or any aspect of the instruction. The easiest way to contact me is through e-mail.

Thank you,

Mrs. Kristie Magrath

Student Name

Student Signature

Date

Parent Name

Parent Signature

Date

Parent email: _____ Parent phone: _____