

Precalculus Syllabus

James Clemens High School

11306 County Line Road
Madison, AL 35756



Teacher:

Mrs. Grantham

Email: klgrantham@madisoncity.k12.al.us

Phone: 256-216-5313 ext. 95222

- I. Course Description:** Precalculus is a course designed for students who have successfully completed Algebra II with Trigonometry course. This course is considered to be a prerequisite for success in calculus and college mathematics.
- II. Course Objectives:** Algebraic, graphical, numerical, and verbal analyses are incorporated during investigations of the Precalculus content standards. Parametric equations, polar relations, vector operations, and limits are introduced. Content for this course also includes an expanded study of polynomial and rational functions, conic sections, trigonometric functions, and logarithmic and exponential functions. Application-based problem solving is an integral part of the course. Instruction includes the use of at least a Ti-84 calculator to facilitate continued development of students' higher-order thinking skills.
- III. Classroom Expectations:**
1. Be responsible for your own learning
 2. Be on time, Be in a quiet place, and Be prepared
 3. Check schoology daily as assignments may change
 4. Appropriate presentation, Mute yourself when necessary, Be ready to participate, Chat responsibly, and Communicate clearly and appropriately
 5. Seek additional help immediately if a topic seems difficult or requires alternative approaches to assist in your understanding

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.

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- 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.
- V. Make-up Test Policy:** If you miss a class, test, or assignment, it is your responsibility to see what you have missed (weekly assignments will be posted on schoology). All work missed on the day(s) of the excused absence(s) must be made up within three school days after returning to school. It is your responsibility to turn this work in to me by the third day. If you do not turn in the work within 3 days then it will become a zero. If you missed a test or quiz, you must communicate this with me ahead of time. We will schedule a time together to make-up the test or quiz.
- VI. Text Required:** Precalculus Enhanced with Graphing Utilities by Sullivan
- VII. Materials and Supplies Needed:** 3 Ring Binder with loose leaf paper and graph paper. Pencil and a **Ti-84 Graphing calculator (any version of the Ti-84)**

18 – WEEK PLAN*	
Week 1	Unit 1 Functions Part I (Key Features, Domain/Range, Even/Odd, Average Rate of Change, & Transformations)
Week 2	Unit 1 Functions Part I (Key Features, Domain/Range, Even/Odd, Average Rate of Change, & Transformations)
Week 3	Unit 2 Functions Part II (Piece-Wise, Composition, & Inverse)
Week 4	Unit 3 Polynomials
Week 5	Unit 4 Polynomials Continued & Unit 5 Rational Functions
Week 6	Unit 5 Rational Functions
Week 7	Unit 6 Inequalities & Unit 7 Exponential and Logarithmic Functions
Week 8	Unit 7 Exponential and Logarithmic Functions Continued & Unit 8 Conics
Week 9	Unit 9 System of Equations and Matrices
Week 10	Unit 10 Basic Circle Trig
Week 11	Unit 10 Basic Circle Trig Continued & Unit 11 Analytical Trig
Week 12	Unit 11 Analytical Trig
Week 13	Unit 12 Polar
Week 14	Unit 12 Polar Continued & Unit 13 Complex and Vectors
Week 15	Unit 13 Vectors
Week 16	Unit 14 Series & Sequences
Week 17	Course Overall Review

* The syllabus serves as a guide for both the teacher and student; however, during the term it may become necessary to make additions, deletions, or substitutions. Adequate notice will be provided to students of any necessary changes.

Dear Parent/Guardian,

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I look forward to having a great year! I feel fortunate to have your son/daughter in my class this semester and hope that you will contact me should you have any concerns about the progress of your son/daughter or any aspect of the instruction. With your son/daughter, please read the attached policies, then sign and date this signature page and have your son/daughter return this form. Please provide a current email address and phone number at which I can contact you should the need arise. Please contact me at school with any concerns.

Thank you,

Ms. Grantham
klgrantham@madisoncity.k12.al.us

My child and I have read and discussed the classroom syllabus.

Student Name (Print) _____ Date _____

Student Signature _____ Date _____

Parent/Guardian Name (Print) _____ Date _____

Parent/Guardian Signature _____ Date _____

Email address _____ (w) _____ (h)

Phone number _____ (w) _____ (h) _____ (c)