



## **Course Syllabus**

### **Honors Precalculus**

**Instructor: Jason Holt**

#### **Course Description:**

Precalculus Honors centers on the exploration of functions designed to better prepare students for college-level calculus and provide grounding for other mathematics and science courses. In this course, students study a broad spectrum of function types that are foundational for careers in mathematics, physics, biology, health science, social science, and data science. During this course, students acquire and apply mathematical tools in real-world modeling situations in preparation for using these tools in college-level calculus. Modeling, a central instructional theme for the course, helps students come to a deeper understanding of each function type. Throughout the course, students develop and hone symbolic manipulation skills needed for future mathematics courses. They also solve equations and manipulate expressions for the many function types throughout the course. Students also learn that functions and their compositions, inverses, and their transformations are understood through graphical numerical, verbal, and analytical representations, which reveal different attributes of the functions and are useful for solving problems in mathematical and applied contexts. In turn, the skills learned in this course are widely applicable in a variety of future courses that involve quantitative reasoning.

#### **Course Objectives:**

From the Alabama course of study, "Precalculus is designed for students who intend to pursue a career in science, technology, engineering, or mathematics (STEM) that requires the study of calculus. It prepares students for calculus at the postsecondary level or AP Calculus at the high school level. The current standards can be found in the following document:  
<https://www.alabamaachievers.org/wp-content/uploads/2021/03/2019-Alabama-Mathematics-COS-Rev.-6-2021.pdf>

#### **Classroom Management Plan**

- Verbal reprimand
- Conference with the student and the parent contact
- Refuel Detention and parent contact
- Referral to administration for consequences determined to be reasonable and appropriate by the school administration.

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

**Concerning Laptop Utilization:** 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. If you have a laptop with you, ask permission before using it, even if you plan to use it for taking notes (I strongly discourage this) 5. **Students are expected to use their school-issued device.**

# James Clemens High School

11306 County Line Road  
Madison, AL 35756



**Phone: 256-216-5313**

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## **Grading Policy:**

Test grades will account for 70% of the 9-weeks grade, with the remaining 30% being determined by quiz/daily grades, and online Delta Math assignments. 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 is cumulative and counts for 20% of the final grade.

## **Make-Up Work Policy:**

Per Madison city policy, students will have an equal number of days to make up work as the number of days he/she was absent.

\*Missing the review before the test does not exempt a student from taking the test on the previously announced date.

- 1) Students will need to schedule a make-up test with either teacher ASAP!
- 2) Any assignment or test missed due to an unexcused absence will receive a zero.
- 3) Any student caught cheating will receive a zero. If homework is being copied, both parties will be held responsible (each will receive a zero).
- 4) It is the student's responsibility to get missed assignments from Schoology, a classmate, or the teachers.
- 5) The deadline to complete make-up work and test corrections for any test/unit will be posted on the board and shared with parents. Once the date for late work and corrections passes, the missing/failed assignments will no longer be accepted.

## **Course Materials:**

### **TI-84 calculator**

Binder with dividers

Lined paper

Graph paper

Pencils

Ability to print either from a home computer or school computer

Access to a computer for online homework assignments

**Donations Appreciated: paper towels, tissues, fine tip expo markers, disinfectant wipes, and copy paper.**



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<b>18 - WEEK PLAN*</b>	
<b>WEEK 1</b>	Intro to functions
<b>WEEK 2</b>	Piecewise functions
<b>WEEK 3</b>	Polynomial functions
<b>WEEK 4</b>	Rational functions
<b>WEEK 5</b>	Exponential functions
<b>WEEK 6</b>	Logarithmic functions
<b>WEEK 7</b>	Sequences and series
<b>WEEK 8</b>	Introduction to Circle Trigonometry
<b>WEEK 9</b>	Exact Values and Intro to graphing trig functions
<b>WEEK 10</b>	Graphing Trig Functions
<b>WEEK 11</b>	Verifying and simplifying Trig Identities
<b>WEEK 12</b>	Sum, difference, double, and half-angle identities
<b>WEEK 13</b>	Solving trig equations
<b>WEEK 14</b>	Solving trig equations with identities
<b>WEEK 15</b>	Polar points and equations
<b>WEEK 16</b>	Vectors
<b>WEEK 17</b>	Conic sections
<b>WEEK 18</b>	Final exam review

**\* This 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.**

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## **Course Syllabus** **Honors Precalculus** **Instructor: Jason Holt**

**Dear Parent/Guardian,**

Thank you for taking the time to read this syllabus and check in with me about this upcoming school year. I am excited to have your child in class this year and look forward to a year with students back in the classroom again! Precalculus is a challenging class, so I encourage you to frequently check your child's grades to make sure they are not falling behind. Please do not hesitate to reach out to me with any questions or concerns you may have about your child. The best way to reach me is via email, which is listed above.

**Sincerely,**  
**Jason Holt**

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**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(es) \_\_\_\_\_

Phone number(s) \_\_\_\_\_  
Cell Home Work