



## Course Syllabus

PRECALCULUS: 2022 – 2023

Instructor: Dr. Kristin Hartland

### Syllabus

#### 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.

#### II. Course Objectives

Course Objectives can be found at <http://alex.state.al.us/browseMath.php>

#### III. Classroom Rules

1. Be prepared for class and in your assigned seat when the bell rings.
2. Be respectful and considerate of everyone and everything in this room.
3. PARTICIPATE in classroom activities.
4. Keep the classroom free of food, drinks, and gum. ONLY WATER allowed for drinking.
5. Use devices appropriately!

#### IV. 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.

#### V. Cell Phones

Students are expected to have phones silent and **put away** in their assigned number slot during classes unless directed to use for data collection during class investigations.

#### VI. Accommodations

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

#### VII. Classroom Consequences

If you choose to not follow classroom rules, then they will receive consequences for your behavior.

1. Warning
2. Detention during Refuel.
3. Detention and Parent Contact/Conference.
4. If you continuously choose to not follow classroom rules, then an administrator will be contacted as well as a parent conference.

#### VIII. 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 the student's 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 20% of the final semester grade.

#### IX. Daily Requirements

Students are expected to complete the following prior to the beginning of class EACH DAY:

- Review Schoology for the syllabus each day
- Watch the Assigned Video
- Copy or print the Notecards for the Current Unit. There will be random Notecard Checks that will count for Test Grades.

# James Clemens High School

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## X. Make-Up Policy

It is the responsibility of the student to make up any missed work when absent. Assignments and notes will be posted to Google Classroom, any handouts/worksheets will need to be requested when returning to class. Students that miss a test will need to schedule time to make it up during Refuel with the teacher. Tests are to be arranged by the student as soon as possible and no later than the first day back to class. Students will be allowed to turn in homework assignments late up until the end of the unit in which the assignment is given (the day of the test for the unit is the last day). Late credit will be awarded instead of full credit if an assignment is turned in late.

## XI. Textbook

Sullivan, Michael and Sullivan, Michael. *Precalculus: Enhanced with Graphing Utilities*, 8th ed. Boston, MA: Pearson, 2021.

## XII. Materials and Supplies Needed

3-ring binder, Lined Paper, REQUIRED Calculator (TI-84 will be the primary calculator used by the teacher), Pen/Pencil, Wide Dry-Erase Markers (set of 4 standard colors, for your own personal use), & Lined Notecards.

<b>20 WEEK PLAN*</b>	
<b>Week 1</b>	Unit 1: Trigonometric Functions (Graphing and Inverse)
<b>Week 2</b>	Unit 1: Trigonometric Functions (Graphing and Inverse)
<b>Week 3</b>	Unit 1: Trigonometric Functions (Graphing and Inverse)
<b>Week 4</b>	Unit 2: Trigonometric Functions (Identities and Equations)
<b>Week 5</b>	Unit 2: Trigonometric Functions (Identities and Equations)
<b>Week 6</b>	Unit 3: Vectors
<b>Week 7</b>	Unit 4: Parametric Equations
<b>Week 8</b>	Unit 4: Parametric Equations
<b>Week 9</b>	Unit 5: Complex Numbers, Polar Points, and Equations
<b>Week 10</b>	<b>MIDTERM</b>
<b>Week 11</b>	Unit 6: Conic Sections
<b>Week 12</b>	Unit 6: Conic Sections
<b>Week 13</b>	Unit 7: Polynomials
<b>Week 14</b>	Unit 8: Exponential and Logarithmic Functions
<b>Week 15</b>	Unit 8: Exponential and Logarithmic Functions
<b>Week 16</b>	Unit 9: Rational Functions
<b>Week 17</b>	Unit 9: Functions
<b>Week 18</b>	Unit 10: Limits & Derivatives <b>Senior Final Exams</b>
<b>Week 19</b>	Unit 11: Particle Motion
<b>Week 20</b>	<b>Semester Review</b> ----- <b>Semester FINAL EXAM</b>

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



Dear Parent/Guardian,

I am excited to have the opportunity to work with you and your child this school year. They will spend their time exploring mathematical concepts and developing the necessary skills needed to become a well-rounded mathematician. With your son/daughter, please read the attached policies, then **fill out the online form** with the link provided below. Please provide a current email address and phone number at which I can contact you should the need arise. If you have any additional questions or concerns, please feel free to reach out at any time throughout the semester.

Let's have an amazing year!

*Dr. Kristin Hartland*



**Instead of printing out a page saying you have received and read the syllabus, please fill out this online survey with your contact information! ☺**

**PLEASE SEE YOUR CHILD'S  
SCHOOLOGY FOR THE LINK  
TO THE MANDATORY  
PARENT SURVEY**

**This can be found in the First Day of School Folder.**