



# DUTCHTOWN HIGH SCHOOL

## PRE-CALCULUS SYLLABUS

2023-2024

Teacher: Srinivas Garlapati

Room # 221

School Phone: (770) 515-7510

email: [srinivas.garlapati@henry.k12.ga.us](mailto:srinivas.garlapati@henry.k12.ga.us)

### Course Description / Content:

**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.

<b>Semester course</b>	
Unit 1: Modeling with Rational and Piecewise-Defined Functions	Unit 4: Modeling with Conic Sections and Polar Equations
Unit 2: Modeling with Trigonometric Expressions and Functions	Unit 5: Modeling with Vector Quantities
Unit 3: Applying Trigonometric Identities and Equations	Unit 6: Modeling with Sequences and Series

**New Grading Procedure:**

<b>Practice work 40%</b>	<b>Assessments 40%</b>	<b>Final/EOC 20%</b>
<ul style="list-style-type: none"> <li>• Classwork/homework</li> <li>• Formative assessments</li> <li>• Diagnostic assessments</li> <li>• Written reflections</li> </ul>	<ul style="list-style-type: none"> <li>• Constructed response assessments</li> <li>• Selected response assessments</li> <li>• Reflective assessments</li> <li>• Summative unit assessments</li> <li>• Culminating performance tasks</li> <li>• Projects</li> </ul>	<ul style="list-style-type: none"> <li>• Semester summative assessment task</li> </ul>

Assignments will be made daily and are designed to help students understand, practice and apply the standards prior to being formally assessed on the standards. In order to ensure mastery, successful completion of assignments and proof that standards have been met are required for students to participate in summative assessments.

Quizzes over one to three elements of the standards will be given at least weekly. Unit tests over multiple elements will be given about every three weeks. At the end of the first semester, all the students will take a final exam. Students will be required to keep a neat and organized notebook that follows the guidelines directed. The notebook will be used to obtain warm up, homework, classwork, Project and quiz grades.

**Grading Scale:**

A = 90-100      B = 80-89      C = 74-79      D = 70-73      F = 0-69

**Infinite Campus:**

Grades are uploaded to the Infinite Campus on regular basis. Parents will be contacted by their child's teacher when his/her math grade falls below 75. Parents may contact the school's counseling office to set up a parent-teacher conference.

**Homework:**

Homework is a method of reinforcement and independent practice. It is important that students complete work daily. Students are expected to turn in homework the day it is due.

**Make-up Procedure:** (Per student handbook)

It is the student's responsibility to make arrangements for make-up work. The number of days allowed to complete make-up work will be one day for each day absent, unless determined otherwise by the principal. Failure to comply with this make-up procedure will result in a zero (0) being given for work and graded assignments missed during an excused absence. Students with excused absences may arrange with the teacher for extra help if an extended absence is unavoidable. Students who have an absence on the day of a test should come prepared to take that test the day they return to school. In addition, if the student was informed prior to the absence date of a test, the student is required to take the test upon return.

**Tutoring:**

Students may request a study or make-up session with their teacher on a needs basis. Tutoring for Math is provided on Thursday after school hours in room 221 from 3:30 to 4:30.

**Classroom Rules:**

1. Be on time. Be in your seat when the bell rings. Class begins promptly, and we work from bell to bell.
2. Be respectful towards others in your words and actions. Also, respect the school and personal property. Do not touch my things without permission.
3. Be prepared for class. Bring your book, notebook, pencil, paper, and calculator to class daily.
4. Talking without permission is considered classroom disruption.
5. Be accountable for all the handbook policies and individual classroom procedures.
6. Be a good listener and follow instructions the first time they are given
7. No food or beverages are allowed in the classroom!!!

**Procedure for enforcing class, school, and county rules:**

(For definitions of Section I, II, and III offenses see student handbook.)

- 1) For any offense of classroom rules: **4-step process**

First offense: conference with student

Second offense: parental contact/30 minute detention

Third offense: parental contact/1 hour detention

Fourth offense: referral to administration

- 2) For any offense that falls into SECTION I, II, or III:

First offense: Referral to administration

**How to pass this class: Doing the following items will help you be successful in this class:**

1. Do assigned reading and practice promptly.
2. Use a planner.
3. Be present on a daily basis. If you are sick, make up work in a timely manner when you return. If absent for more than one day, arrange for your work to be brought to you (by a classmate).

4. Keep your notebook up to date.
5. Complete your own assignments.
6. Study for tests (start reviewing for a test at least three nights before a test).
7. Ask questions when you do not understand.
8. Set up the long term and short-term goal and see how you achieve these goals using the action plans.
9. Review your data and see how you need to improve your skills.

**Online Resources:**

[www.georgiastandards.org](http://www.georgiastandards.org)

[www.khanacademy.com](http://www.khanacademy.com)

[www.math.com](http://www.math.com)

[www.deltamath.com](http://www.deltamath.com)

[www.patrickjmt.com](http://www.patrickjmt.com)

[www.jmap.com](http://www.jmap.com)

GADOE

• <https://www.gadoe.org/Curriculum-Instruction-and-Assessment/Curriculum-and-Instruction/Pages/Math-Parent-and-Student-Resources.aspx>

HENRY COUNTY

- <https://schoolwires.henry.k12.ga.us/students>
- You can find Pre-Calculus app in online class link HMH (Wiley Plus)