Thomas Jefferson High School

Honors Precalculus Syllabus

Elizabeth McMahon

[elizabeth\_mcmahon@dpsk12.org](mailto:elizabeth_mcmahon@dpsk12.org)

Phone: 720-423-7130 Room: 128

**Course Description**

Precalculus/Trigonometry involves preparing for Calculus by exploring function composition, rational, exponential, and logarithmic functions. For this work we will be using the textbook, *Precalculus.* Mid-year we will switch to the *Calculus for AP\** textbook and begin working on the basics of Calculus.

**Topics Covered**

* **Precalculus/Trigonometry**
  + The Unit Circle
  + Trig Functions
  + Trig Identities and Formulas
  + Piecewise Functions
  + Logarithms
* **Calculus**
  + Limits
  + Differentiation
  + Derivative Applications

**Grading System**

Homework 10%

Classwork 10%

Quizzes/ Tests/ Projects 70%

Final Exam 10%

**Grading Scale**

A = 90% - 100%+ B = 80% - 89%

C = 70% - 79% D = 60% - 69%

**Homework Policy**

Assignments will be given multiple times a week. **To receive full credit students must show all of their work**. Late homework will be accepted, but will not receive full credit (80%).

* Every homework assignment receives a minimum of two days to complete. This allows for a first attempt at the work on the first night, followed by time for homework questions in-class. The second night should be used to finish up the work and correct any mistakes.
* Students will receive two ‘Life Happens’ homework passes per semester. This allows students to turn their homework in late without a penalty – this is to be used for nights with late sporting events, ER visits, etc.

**Quizzes**

A quiz may be given at any time

* Some will be announced, some will not.
* Some will be open note, some will not.
* Quizzes may not be retaken.

**SAT Prep Quizzes**

* SAT Prep quizzes are quizzes that focus on Algebra I skills that must be mastered. These quizzes will be given once a week. They will be averaged over a five-week grading period. At the end of the unit, a larger SAT Prep Test will be given. If this score is better than the average of the previous SAT quizzes then the grade will be replaced.

**Tests**

Tests will be given at the end of each unit. Students will be allowed to retake failed tests once. Tests with a passing grade (60%+) may be worked on via Test Corrections. Final Exams may not be retaken.

* Test retakes can only be done after a student has submitted proof of additional studying with a math teacher or tutor
* The test retake grade **will be** the grade in the gradebook- even if the score drops.
* Test Corrections must be worked on with a math teacher or tutor. The math must be fixed and accompanied with a written explanation on the process to solve the problem. Written explanation of mistakes made will not receive credit.
* Test Corrections and Retakes need to be submitted or taken within a two week time period of receiving their original test back.

Missed quizzes or tests need to be made up by the following week’s office hours at the end of the day on Wednesday. Quizzes or tests over a week old can no longer be made up.

**Supplies**

* Pencils/Pen
* 3 Ring Binder **or** Folder with Brackets
* Lose Leaf Paper **or** Spiral Notebook (this must either be solely for math or have a section within a larger notebook that is dedicated to math)
* Graph Paper is Recommended
* A Personal Graphing Calculator is Strongly Recommended

**Office Hours**

I am available to help students individually during office hours on Wednesdays from 2:14 to 2:55pm, most lunches Monday through Friday, and after school most Mondays and Thursdays.

* On Mondays and Thursdays I will be available for tutoring with the after-school tutoring program in the library from 3-4pm.

**Google Classroom**

This class will be using Google Classroom frequently. To join, use the code: **fgnc8er**. In the Precalculus section you will find, class assignments, homework assignments, vocabulary support, video support, etc. If you are struggling or missed class, Google should be a wonderful resource for you to use, especially outside of class.

* Help logging into Google Classroom can be found on my wiki page. You may also come to me if you are unable to login.

**Classroom Policies and Expectations**

* As a teacher, it is my responsibility to facilitate learning in the classroom, if a student impairs this in any way, this will be addressed so that an appropriate learning environment may be created.
* The rules and guidelines in the student handbook are the governing rules in this classroom.
* **It is your responsibility to come to class prepared and ready to learn every day**. This means you need to bring all of your materials with you, have any homework/assignment completed, and be ready to work and pay attention!
* You may talk quietly during group work. At any other time – during lecture, a quiz, a test, presentation, warm-ups and so on, talking will not be tolerated and addressed as disruptive behavior.
* Disruptive behavior will not be tolerated.
* On your first offense you will have a warning
* Subsequent offenses may result in being held after class, before or after school and a call home.
* Multiple offenses will result in you being removed from class.
* Respect one another! This means no name-calling, harassment, etc.
* No cell phone usage will be allowed in class. If you have an emergency, speak to me and we will come to an agreement.
* No food in class. A water bottle is encouraged, but no other beverages or food during class time.
* Any violations of the school’s property or my personal property will result in a grade drop and may also involve more severe consequences.
* Any plagiarism/cheating will result in a zero for the assignment.
* Any video recording on phones during class is a violation of FERPA and will result in confiscation of the phone and a meeting with the Dean of Students.
* Homework assignments, test dates, etc. can be found on the calendar in the back of the classroom. It is the student’s job to check this calendar on the way into class everyday. Once assignments or other notices are listed on the back board it is not the teacher’s responsibility to make an announcement for it.
* Papers submitted with no name can be found on the no name board in the back of the classroom.
* **To receive credit for your work you must always show all of your work and steps.**
* Extra Credit should not be expected, though there may be a few opportunities, usually offered within an assignment or quiz/test. You should not depend on extra credit to affect your grade a significant amount.
* If a student catches a mistake made by the teacher and corrects it, an extra credit point will be awarded – pay attention!