

PLAINFIELD EAST HIGH SCHOOL



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Honors Precalculus Syllabus

2018/2019

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COURSE DESCRIPTION:

Welcome to Precalc Honors! Precalculus combines the trigonometric, geometric, and algebraic techniques needed to prepare students for the study of calculus, and strengthens students' conceptual understanding of problems and mathematical reasoning in solving problems.

UNIT 1: (part 1) Sequences, Series, (part 2) Exponential and Logarithmic Functions

In this unit you will study recursive and explicit representations of arithmetic and geometric sequences. You will also study exponential, logarithmic, and power functions and explore the key features of their graphs. In addition, you will look at transformations, compositions, and inverses of functions.

UNIT 2: Functions and Their Graphs

In this unit you will study polynomial and rational functions, their graphs, and their zeros. You will also learn several theorems related to polynomials and their complex roots, whether rational or imaginary.

UNIT 3: Trigonometric Functions

In this unit you will study polynomial and rational functions, their graphs, and their zeros. You will also learn several theorems related to polynomials and their complex roots, whether rational or imaginary.

GRADING:

Course Grades: Course grades will not be based upon a total accumulation of points. Instead, student grades will be determined based on the following weighted categories:

Assessments: 55%

Quizzes/Projects: 15%

Practice (classwork/assignments): 10%

Final Exam: 20%

Grading Scale: A=100 – 90; B=89 – 80; C=79 – 70; D=69 – 60; F=59.9 and below

Practice:

Classwork and assignments are an important part of Precalculus. The curriculum is interactive and designed for students to collaborate and cooperate during classroom activities. Some of the concepts are difficult and require various amounts of practice to master. Assignments that are not completed in class, need to be finished outside of class. Assignments may be checked daily, after several days or with a homework quiz. Problem sets will be turned in and graded for correctness. Points may be deducted for work turned in late. Any late work from a particular unit is due the day of that unit test.

Assessments (Unit Tests and Quizzes):

You can expect several small assessments (quizzes/embedded assessments) per unit. If you have completed the classwork and assignments you should have successfully mastered the material you will probably do well on these quizzes. There are **no retakes** on quizzes. A Unit Test will be given at the end of each unit. There is **one optional retake assessment** in Honors Precalculus. All unit work must be completed on the original testing date in order to be eligible for a retake. Additional work may also be assigned. Students who are absent on the day of a review for a quiz/test will still be expected to take the test on the day they return. All review materials are posted.

EXPECTATIONS:

- **BE PREPARED!:** Come to class on time, with all materials, ready to learn.
- **BE RESPECTFUL!:** Raise your hand, don't talk when others are talking, treat people how you would like to be treated.
- **BE PRODUCTIVE!:** Follow directions, stay organized, and complete assignments on time.
- **BE SAFE!:** Always be aware of your surroundings and employ safe habits.
- **BE POSITIVE!:** Ask questions, don't get discouraged, and have fun!

ABSENCE POLICY:

Students who have a pre-excused absence (field trips/vacations) are allowed to make up work missed during the absence. When assignments are provided by the teacher before the student leaves, the student is required to turn in the assignments upon return to each class.

For an excused illness absence, the student is entirely responsible for requesting the make-up work from the teacher(s). Tests/quizzes will be scheduled at an agreed upon time. Students will be given one school day for each day of excused absence to make up assignments and tests. Additional considerations will be given for students with extended illnesses.

In the matter of disciplinary absences, for the first offense resulting in a suspension longer than 3 days, the Attendance Office will collect and provide homework assignments to the student. It is the responsibility of the student to contact the Main Attendance Office and make arrangements to pick up the homework assignments. For subsequent, external suspensions, it is the responsibility of the student or parent to contact the teacher to obtain homework assignments. It is the suspended student's responsibility to make up missed work or tests. Work is due on the date of return to school.

ACADEMIC HONESTY:

Tests, Projects, Essays & Final Exams

If a student is caught cheating on a major assignment and/or test, he or she may receive the following:

1st Offense: 1 hour referral (referral submitted by teacher to the appropriate dean), but an opportunity to retest, and/or complete the assignment with 20% off their retake grade.

2nd Offense: 4 hour referral (referral submitted by teacher to the appropriate dean), but an opportunity to retest, and/or complete the assignment with 50% off their retake grade.

3rd Offense: ASDA (referral submitted by teacher to the appropriate dean) and a 0% on their grade.

(Note: Due to the different format of major assignments and tests between departments, the times and policies for completing the assignment will be determined by individual departments.)

Homework

If a student is caught cheating on a homework assignment, he or she may receive a 0% on the assignment and follow the above discipline consequences. Make-up work will not be given.

Additional Information Regarding Academic Honesty

Unless otherwise stated by the teacher, all assignments are to be turned in and completed independently. The consequences for multiple occurrences of cheating are cumulative across subjects/disciplines.

CLASSROOM PROCEDURES:

- Be in your seat when the bell rings.
- Take out binder and start the bellwork/problem set.
- Respect others and your school. We all know what this means.
- Keep hall passes to a minimum.
- Refer to you student handbook for all other rules and regulations.
- Bring your required materials every day.

REQUIRED MATERIALS:

The following materials must be brought to class every day:

1. Precalculus SpringBoard Workbook (will be provided on first day of school)
2. Binder with paper or notebook and folder (to supplement workbook)
3. Loose leaf paper and graph paper
4. Pencils
5. TI-84 (or TI-83 Plus) graphing calculator

*Additional supplies may be required throughout the year.

Optional Materials:

- binder dividers/tabs
- highlighters
- different colored pens
- sticky notes
- other items you feel would be helpful with organization

COMMUNICATION:

Teacher-Student communication is important. You need to tell me **the moment** you feel you need additional assistance. I am in the building by 6:50 AM and I usually do not leave before 3:00 PM. My office is in the Math Office, Room 222 or you can contact me by email at dgriffi1@psd202.org. I am here to help you, but you must let me know that you need assistance. Typically, I am not available after school on Wednesday due to department/subject area meetings. I am also unavailable the first and third Thursday of the month due to NHS meetings.