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W. P. Davidson High School
Honors Precalculus
Fall 2019

Why study precalculus?

This class will show you extensions and applications of topics covered in algebra and geometry. This class will focus on problem solving, graphing, modeling and trigonometry. Throughout the course limits and rates of change will be explored in preparation for calculus.

This class will be interesting and challenging. Your success is not only my goal, but also the goal of Davidson High School. But the most important factor of your success is your effort, dedication and good judgment. I look forward to an exciting semester.

We will study algebra necessary for the study of calculus, functions and their behavior, logarithms and exponential functions, analytic trigonometry, vectors, sequences and series.

Class Rules

1. Be respectful of everyone and everything around you.
2. Use your best effort everyday.
3. Obey all school rules.

All school rules will be enforced. This includes rules regarding uniform, cell phones and other electronic devices.

Class Policies and Procedures

1. Tardiness – A student should be seated and ready for class when the tardy bell rings. Pencil sharpening should be done before the tardy bell rings. Students not seated and ready to work when the bell rings will be required to obtain a tardy pass.

2. Bathroom/Office passes – Personal needs should be handled between classes. Students will be given 3 passes for personal use each quarter.

3. Uniform – In keeping with school policy, proper school uniform is required at all times. Students not in uniform will be asked to leave. Uniform related absences and tardies will be considered unexcused.

4. Absences

a. Davidson High School strictly enforces the policy regarding excessive absences. Students with more than five (5) unexcused absences will not receive credit for the course. Students are strongly encouraged to attend every class meeting.

b. Do not miss test days. You will not enjoy sitting in the classroom after school taking a make-up test. Make-up tests are given after school or in class at the instructor's discretion.

5. Make-Up Work – Students with an excused absence the day an assignment is given or the day the assignment is collected will have one week to turn-in the assignment. It is the student's responsibility to obtain, complete and turn-in the make-up work.

Required Supplies

1. Pen/pencil
2. One inch 3-ring binder with filler paper
3. TI graphing calculator
4. Textbook – you are required to bring your textbook to class every day
Pre-calculus, Enhanced with Graphing Utilities, Sullivan & Sullivan, Sixth Edition, Pearson, Boston, 2013

Students who draw attention to their lack of supplies or are disruptive because of their lack of supplies could be asked to leave the class for the day.

Grading

Your quarter grades will be determined as follows:

20% - quarter exam – This is a cumulative exam covering all material taught in the course.

56% - tests – This includes end of chapter tests and some quizzes.

24% - assignments – This category includes class work, homework and some quizzes. Most assignments will be graded for accuracy and completion. Grades for completion of Before Class Notes will be included in this category.

Progress reports will be provided to students throughout the semester. Parents are encouraged to obtain the pin number to use the schools online program for obtaining student grades.

Tutoring

If you have specific questions about practice problems or notes, please feel free to see me any day after school.

Topics

Topics covered in class will likely follow the order below. Schedules will be given to students at the start of each unit

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|---|----------------------------------|
| I. Graphs & Functions | VI. Trigonometry |
| II. Polynomial Functions | VII. Analytic Trigonometry |
| III. Rational Functions | VIII. Trigonometric Applications |
| IV. Logarithmic & Exponential Functions | IX. Vectors & Polar Coordinates |
| V. Logarithmic & Exponential Modeling | X. Limits |

Before Class Notes

Students are expected to take their own handwritten notes on material covered in the text before the class period where that section is covered. These notes must include information about the topic covered and show where students have worked the examples and Orange Pencil Problems. These notes are not a substitute for in class notes, but are to ensure students are familiar with the vocabulary and concepts being used in class.