

Welcome to Math Analysis

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The Course

Welcome to Math Analysis! This course is designed to prepare students for calculus. It covers statistics, trigonometry, exponential functions, logarithmic functions and their applications. A grade of 'B' or better in Algebra 2 is a prerequisite for this course.

Online Instruction

Students will be required to attend the Google Meet (or Zoom) class each day with their webcams turned on. This will be an INTERACTIVE class. I want to be able to see your face and ask you questions just like a normal classroom. Be prepared to have your mics turned on. Attendance will be taken, and work will be supervised during the entire class period. Students are not allowed to show up to online classes wearing their pajamas. They must be sitting at a table/desk not lying on a bed. During lecture time I expect full participation. No headphones, cellphones, etc. allowed during lecture time. Feel free to have something to drink, but students should not be eating during lectures. Once the lectures are over, we will do classwork, activities or games. I will keep the Live Session open for the duration of the class and watch you work on Math Analysis. You may not work on any other class during our online class period. The only exception to that is if you have submitted your worksheets for the entire Unit and are ready for a test. If you miss a class for any reason YOU are responsible for finding out what you missed. Assignments must be made up within 24 hours of your return to school.

How to submit your work

All work must be submitted through the Google Classroom. Most assignments will be PDF files available for download with solutions to the problems online. I also will include video solutions of my own work to some problems so you can follow along while working on the problems. Students may write directly on the PDFs using DocHub, Kami, or any similar program and then submit directly to the Google Classroom. I recommend purchasing a stylus that works with your chromebook or electronic device. Students may also print out each assignment and do the work with paper and pencil. Those assignments though must then be scanned and submitted. I recommend using a phone app called Adobe Scan. You can scan each document and then merge them into one PDF for submission. DO NOT send multiple JPGs or PDF files of your work. DO NOT send your work to me through email. It **must** be submitted directly to our Google Classroom.

Tests

Our primary test day is Thursday but may change depending on the schedule that week. Refer to our class calendar for upcoming test dates. You may retake **one** test per semester and I will keep the higher score in the gradebook. Retakes must be done PRIOR to finals week.

Classwork/Homework

There is a pacing guide on our class calendar so you can stay on task. The assignments are due the day after it is posted. For example if I post an assignment for Tuesday, you should turn it in on Wednesday. PLEASE DO NOT FALL BEHIND! Some assignments will require printing out and the use of scissors, rulers, protractors, etc.

Text

Sullivan, Pre-Calculus. We will use our book as a supplement to the material on flippedmath.com. I will also integrate supplemental videos, activities and worksheets from laroncalculus.com, Kuta Math, Kahn Academy and the AP Central website. Please pick up a copy of the book from the school office.

Materials required for “On Campus” instruction

When/If we return to campus the course will continue very similar to the online class environment, with the obvious exception that you can now be with your friends YAY! Please bring a pencil or pen, your Calculus book (with a book cover) and a TI-83 or better scientific calculator. You may bring a Chromebook, laptop, tablet, or iPad to access our online content. This is a privilege not a right. Do not work on other class assignments during our class. If you are using your device for anything other than the topic at hand you will no longer be allowed to use it.

Flipped Classroom

I am running a flipped classroom environment for this course. This means students will watch lectures online for homework and then do their worksheets in class so I can help. We will be using the Pre-Calculus course found at www.flippedmath.com along with our course approved textbook. Students will receive the worksheets for an entire chapter at the start of the lesson to help students who want to get ahead. Each lesson includes a review worksheet which may be completed for 5 extra credit points on homework. Our course assignments can be found in our Google Classroom in a google calendar. I encourage students to subscribe to the calendar so they have their daily assignments with them at all times. If a student misses class they can find their assignment on our class calendar and print out their materials from flippedmath.com.

Grades

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|----------------------|-----|
| Classwork & Homework | 15% |
| Tests and Quizzes | 60% |
| Final Exam | 25% |

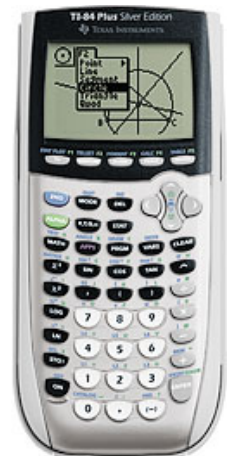
Useful Websites

flippedmath.com
desmos.com
khanacademy.org
wolframalpha.com
mathway.com



Grading Scale:

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|----------|----|
| 93 – 100 | A |
| 90 – 92 | A- |
| 87 – 89 | B+ |
| 83 – 86 | B |
| 80 – 82 | B- |
| 77 – 79 | C+ |
| 73 – 76 | C |
| 70 – 72 | C- |
| 67 – 69 | D+ |
| 63 – 66 | D |
| 60 – 62 | D- |
| Below 60 | F |



Expanded Math Department SLOs



RHP Math students should read and think critically.

The student should be able to read the text material and examples and be able to extend what they have read to problem solving. They should attack new problems by relating them to previous problems or by researching the text and other materials. Students are often given an assignment to read the text and then answer the *covering the reading problems* without prior instruction. Problems from math contests are woven into courses to encourage creative thinking. Some classes give an SAT *problem of the day*. Also extended response questions are integrated from the Math Diagnostic Testing Project and through Accelerated Math.

RHP Math students should communicate clearly and effectively.

Students must show their work. The steps to solve a problem should be organized so that someone else can follow them. They must be able to frame meaningful questions. They should be able to use appropriate mathematical language. We create a classroom environment where students are encouraged to ask questions and explain their thinking. Occasionally we will give an extended response problem and the student's grade will be based on how well they are able to communicate their reasoning as well as the correctness of the response.

Math students should demonstrate personal, moral and social responsibility.

Students will be required to take notes. They must be able to follow directions. Students should always respect the ideas of others. Students should realize there is always more than one way to solve a problem. We expect students to come to class prepared by bringing necessary materials. As a faculty we also will recognize and reward random acts of kindness. Students may also demonstrate this ESLR by tutoring or mentoring a student in a lower level class.

Math students should value teamwork through participation.

Students should participate in class discussions and be able to ask and answer well-phrased questions. They should be able to work with other students in the class on a project. They should not let down their team, but actually work towards the solution. Projects will be given during the course of the year where students will be required to work with others on a team project. Students will be graded on how well they are able to contribute to the team and cooperate with the team.



Math students should develop skills to be lifelong learners.

Students should be able to take real-life situations and translate them into some type of mathematical model. They should investigate different approaches to the problem and decide on a plan of attack. We look at Star Math results, ACT/SAT scores, Math Diagnostic Test Project results, and Accelerated Math Objectives.

