

Mrs. Meyer's Advanced Calculus Honors Syllabus

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Text : **Calculus Second Edition by Briggs, Cochran, & Gillett**

Period #3: (9:44 a.m. - 10:32 a.m.)

Required Materials: **pencil, notebook (3-ring binder and composition notebook for daily notes), graph paper, paper, & charged iPad**

Course Overview and Prerequisites:

The primary objective of this course will be to understand the underlying mathematics of calculus. That is, to understand the geometrical and numerical meanings of each concept in conjunction with the algebraic processes involved in the study of calculus. Throughout the year you will be asked to interpret, understand, and apply the concepts and relationships of all major topics in four ways: geometrically (graphs), numerically (tables of data), algebraically (formulas, functions, etc.), and verbally. The textbook and supplementary material will reinforce this approach by encouraging the communication of solutions to problems both verbally and in written sentences.

This course is designed for those students who have demonstrated mastery in algebra, geometry, and elementary functions. These functions include linear, polynomial, rational, exponential, logarithmic, trigonometric, and piecewise defined. In particular, before studying calculus, students must be familiar with the properties, graphs, and the language of functions (domain and range, odd and even, periodic, symmetry, zeros, intercepts, and so on). Students must also be familiar with the various techniques and formulas for simplifying, factoring, and solving functions. In addition, it is expected for students to know the values of well-known trigonometric functions. The major topics of study will include functions, limits, differential calculus, and integral calculus.

Academic Honesty: Any cheating in any form, despite how small, will result in an automatic zero points. Because of the potential to cheat, you will have similar tests but not identical or the questions will be jumbled.

Major Classroom Rules / Expectations

--- Breaking the Rules results in at least "0" Participation Points for the day.

1. NO TALKING and DO NOT BE DISRUPTIVE!!!

Do not talk or be disruptive at any time from the instant when the class starts to when EVERYONE is done with their assignment.

TALKING means having any kind of words come out of your mouth. Therefore, whispering is also talking. Even during work time, you are not allowed to talk to anyone (which includes the person sitting next to you). If you have questions or need help, raise your hand and I will help you.

Being DISRUPTIVE includes but is not limited to the following behaviors: talking while Mrs. Meyer is talking, swearing or using any inappropriate words, making rude comments, making noises with your pencil, chair, desk, etc., making noises with yourself (burping, whistling, talking to yourself, foot tapping, etc.), non-verbal communication with other students at inappropriate times.

In other words, Mrs. Meyer corrects you by telling you to "quite down" or "stop doing that" or "get back to work", then you are either talking or being disruptive.

2. NO USING CELL PHONES or OTHER ELECTRONIC DEVICES in class!!!

When you arrive to class, it is school policy to place your cell phone in your book bag which is left in the hall way by the lockers. It will remain there for the entire class period. Not following this policy automatically results in "0" participation points for the day. DO NOT HAVE THE CELL PHONE IN YOUR POCKET!!!

All other electronic devices, including your iPad will be turned off until time to do homework if the assignment is online or if you are assigned a test that is online. NO EARBUDS IN THIS CLASSROOM!!!!

Using your phone or if you use any other electronic device will result in THREE DAYS OF ZERO PARTICIPATION POINTS!!!

3. Upon arriving in class you are to begin working immediately on the bell-ringer activity while Mrs. Meyer takes care of housekeeping duties.

4. There will be NO FOOD brought into the classroom. Leave it in your book bag in the hallway. Also, only clear water bottles will be allowed in the classroom. If you are going to need water to drink while in the class, that is fine. But it MUST BE A CLEAR (SEE THROUGH) BOTTLE, NOT A COLORED ONE!!!

Grading and Homework:

There will be homework every day, almost without exception. Daily notes and assignments should be done in the appropriate notebook, in pencil and in the order assigned. Discipline yourself to keep current with your assignments. Parents, please insist that your child does his/her homework on a daily basis, as this is the key to success in math. I encourage parents to look at the notebook on a weekly basis.

Your nine weeks grade will be calculated using a weighted average, which is shown below.

- Tests 40%**
- Quizzes 25%**
- Homework 15%**
- Bell Ringers/Classwork/Participation 15% (participation = 3 points per day which includes following classroom rules)**
- iPad Protocol 5%**

Please note that assignments and assessments will be given a "ZERO" if work is not shown, unless specifically instructed otherwise. Also not all homework and classwork that is assigned will be collected for a grade. Unless otherwise stated, all homework is due the next time the class meets at the beginning of the period. LATE WORK IS NOT ACCEPTED. All students must take a written final semester exam, NO EXCEPTIONS!!!

Make-Up Work due to Absences:

Students will receive 2 days to complete and submit make-up work. If you will be absent for a school activity, all work MUST be submitted prior to the absence to be accepted. NO EXCEPTIONS!!! Thus, you must think ahead. You must turn in your work yourself, not someone else, to Mrs. Meyer. Planning on your part is very important.

The letter grade is assigned using the district scale below.

| Numeric | Letter | Explanation |
|-----------------|---------------|---|
| 98 - 100 | A+ | <i>Excellent achievement, outstanding accomplishment, demonstrating mastery of course expectations, and ability to apply higher level thinking as it relates to the real world.</i> |
| 93 - 97 | A | <i>Excellent achievement, outstanding accomplishment, demonstrating mastery of course expectations, and ability to apply higher level thinking as it relates to the real world.</i> |
| 90 - 92 | B+ | <i>Above average achievement and accomplishment, demonstrating mastery of most course expectations.</i> |
| 85 - 89 | B | <i>Above average achievement and accomplishment, demonstrating mastery of most course expectations.</i> |
| 82 - 84 | C+ | <i>Average achievement, demonstrating mastery of some course expectations.</i> |
| 77 - 81 | C | <i>Average achievement, demonstrating mastery of some course expectations.</i> |
| 74 - 76 | D+ | <i>Below average achievement, demonstrating minimal mastery of course expectations.</i> |
| 70 - 73 | D | <i>Below average achievement, demonstrating minimal mastery of course expectations.</i> |
| 0 - 69 | F | <i>Demonstrated insufficient mastery of course expectations (no credit earned at secondary level).</i> |

Attendance:

When you are absent, YOU!!! Are responsible for all work missed, including class notes, quizzes, tests, and homework. It is your responsibility to find out what was missed, turn in that assignment, if applicable, and to make arrangements with Mrs. Meyer to make up any tests or quizzes. You will need to check with a classmate/Google Classroom. In order to make up work, an absence MUST BE EXCUSED.

- **In the event that you are absent, you can check Google Classroom for the daily assignment.**
- **If you will miss class because of a school activity, you are required to see me in advance in order to obtain the work you will be missing, so that you will not get behind. Also, the assignment which is due the day of the activity must be turned in prior to the activity for credit. Otherwise, you will receive a grade of ZERO.**
- **You will, for excused absences, have 2 days to complete and submit the make-up work. If you are absent only on the day of a quiz or test, you will be required to make-up that quiz or test on the day that you return.**

Tutoring:

Tutoring will be available in the Community Room after school from 3:30 p.m. until 4:30 p.m. on Monday, Tuesday, Wednesday, and Thursday. If you are in need of help, please make sure that you attend to get the help before you get too far behind in class.