

The study of mathematics cannot be replaced by any other activity that will train and develop man's purely logical faculties to the same level of rationality.—C.O. Oakley

Dear Students (and Parents of Students) of AP Calculus,

Welcome to another new year filled with new possibilities, new challenges to conquer, and new expectations to rise above. Your exceptional abilities, accomplishments, and acumen in mathematics have qualified you for this amazing college-level course. This is, of course, an Advanced Placement course too, so along with the status, weighted average, and thrill of learning more math comes the workload and pacing of such a course. By the end of the year, you will have learned and practiced enough to pass the AP Exam and proceed to the next level of calculus in college. This goal will be realized through a variety of methods with great emphasis on individual practice. You will indubitably succeed if you are an involved (rather than a passive) member of this class.

I. WEBSITE/TEXTBOOK

My website, www.korpiworld.com, is the primary source for you to get your in-class notes and homework worksheets. I have had several years' experience grading the AP Calculus tests, and this experience has given me great insight into how the test is written and scored. With this in mind, the notes and worksheets I have developed are very closely aligned with the College Board curriculum for both AP Calculus AB and BC. Students wishing to have another resource for learning the material may check out a campus textbook. This is entirely optional, and students will not have to bring this book to class, nor will homework be assigned from it. While the textbook contains all the information contained on the website, its scope and sequence are a bit different than what we will be covering in class.

II. ATTENDANCE

Regular, daily attendance is critical for success in this class. I really look forward to seeing you each day. If you do, though, have a compelling and unavoidable circumstance for your absence, you are expected to get what was missed as soon as possible. Morning tutorials, study groups, and the website are available options to ensure you catch up and catch up quickly. And don't be tardy either.

III. CLASSROOM

1. The main rule for this class is to **care**. Care about yourself. Care about your classmates. Care about learning and making the most of each new assignment and assessment. From caring comes respect and courtesy. Whatever takes place in the classroom will be for the purpose of helping you or your classmates progress further down the road to understanding and mastering the subject. Be an asset to yourself and others, not a liability. Private, irrelevant conversations during instruction time and off-task behavior does not help you or your grade and is very distracting to the rest of us, so avoid them at all costs.
2. Come to class prepared to learn, because when the bell rings, it's "Game On!" Bring your pre-printed notes with you (or downloaded to your i-pad), pen/pencil/stylus, and your TI **graphing calculator** (83 or 84 family). You may take notes in a composition book, spiral, or on your i-pad on Notability (I'd encourage this). You will need real paper (lined or unlined) on which to take quizzes and for completing Homework Worksheets.
3. Be prepared to tackle the warm-up on the screen when you enter the classroom. Once the bell rings, I expect private conversations to cease and noses put to the grindstone. Occasionally, the warm-up will be a timed quiz. Time starts when the bell rings, so again, don't be tardy.

IV. HOMEWORK WORKSHEETS

1. Just like sports, music, and numerous essential skills, practice is essential to mastery in mathematics. It would not be a surprise if this class proves to be a struggle for you on some level at some point during the year. This is normal and not a bad thing at all. If there's no struggle, there's no progress. Much like sweating and working through frustrating performance plateaus in sports or physical training, you can work through the struggle in math by using the skills you already have, developing new skills I will teach you, and using the resources available to you (tutorials, website, textbook, study groups, tutors, online, etc.) Some of your practice will be in class, sometimes it might be done with your peers, often it will involve your calculator, but it will always involve your deliberate, concentrated efforts.
2. Homework worksheets are tailor-made to maximize your learning-to-effort ratio. I have personally selected each and every problem on each and every worksheet. I assure you, they are valuable and manageable. They will earn you points in two ways. First, each worksheet will be graded in terms of effort and completeness (not

accuracy). You should work on the worksheets daily, although they will not be turned in until the lesson is complete (usually every three to five days). You will be graded on a 4-point scale, with a 4 (100%) being all problems attempted and **legitimate effort** to complete each problem. A 3 (75%) are for papers with 75% or more completed, including papers with only one problem or one part of a problem omitted or not legitimately, earnestly attempted (which involves more than just writing down the problem and/or drawing a picture). A 2 is 50% and half complete. A 1 is a 25% and a 0 is for work not turned in. The second way, and most important way is this. **THE KNOWLEDGE YOU ACQUIRE, SKILLS YOU DEVELOP, EFFICIENCY YOU EARN, AND THE CONFIDENCE YOU ATTAIN** in diligently and earnestly tackling them will help you do well on quizzes and tests.

3. Worksheets/homework will be due every three to five days on the day immediately following the conclusion of a lesson **at the beginning of each class (electronic time stamped)!!** THEY MUST BE DONE ON PAPER, AND A HARD COPY MUST BE TURNED IN!! Late assignments are permitted if they are turned in before the unit test has been taken. Any outstanding assignment after the unit test will become a zero. Late assignments are worth a maximum grade of 70. With an excused absence, you have one extra class period for each class day of absence (weekends excluded) to make up missing work
4. The amount of material we need to cover in Calculus makes it impossible for me to take time out of class to go over every problem assigned. You should plan on using tutorial time before school (I'm in my room by 7AM each morning) to get extra help with problems not explained in class, consulting the online key for a hint, or watch the online videos of the lesson (link on my website).
5. This course emphasizes communication skills. With that in mind, writing and problem analysis will play a crucial role in your success. Many of the class activities, lessons, worksheets, quizzes, and tests will emphasize this important skill, such as "Justify" and "Explain the reason for your answer."
6. You will want your homework time to be very efficient. Here are some tips:
 - Do something every day from your worksheet. Do the problems similar to the ones discussed in class that day. Come into tutorials the next morning to get assistance before new topics are discussed.
 - Those of you who are very careful and neat, thus slow and subject to bouts of homework paralysis, will have to settle for less than perfect here and there in order to get the job done without unnatural stress.
 - Those of you who are careless, thus fast, will have to slow down and show more work than you are used to showing on your assignments. You have to effectively communicate your process as well as your product; method and correct notation are important, not nit-picky, parts of the subject.
 - Another important resource is your fellow student. University research indicates that math students who worked regularly with a study group performed at a significantly higher level than those who did not. Study groups are an excellent way to get help and to reinforce what you know. You can waste a lot of time waiting for inspiration, when one suggestion from a study partner can get you going again. Try doing your homework worksheets with a good mix of people. But be warned: Copying does not equal Collaboration. *You may learn in groups, but you will take assessments on your own!*
7. Remember, doing homework daily is the rule, not the exception. Although worksheets are not **due** daily, you should **do** them daily. **There is no more single important activity you can do in this class to be successful than to treat your homework with the respect it deserves and work on it with due diligence.**

V. GRADING

1. Homework Worksheets and Quizzes together make up 25% of your NINE-weeks grade. Quizzes are helpful in convincing you to keep up and to help me determine if you are doing so or not. They will be of the announced and unannounced variety and will always be during the first 5 to 10 minutes of class. The quizzes will cover content from previous day's notes, worksheet, or formulas and theorems you are expected to know. They will be timed and neither notes nor worksheets will be allowed on quizzes.
2. Tests are 75% of your NINE-weeks grade. We will have three per grading period (roughly every three weeks), with the 3rd and final test being a CUMULATIVE test over anything covered up to that time. These tests will be in the same format as the AP tests, consisting of both multiple-choice and free-response answers. Each worksheet is in this format as well, so you'll have plenty of practice working each type of question. I have even been known to pull test questions from homework worksheets. Of course, these tests will be timed as well so that you can get comfortable working under time pressure. They must also be completed in one sitting. Because this is a level 4 class, retests are not allowed, BUT on each test, I look at the overall distribution, and I may adjust the scores in a similar fashion to College Board's method of adjusting AP scores.

3. A STUDENT WHO IS ABSENT FOR THE IN-CLASS EXAM WILL HAVE A MAKE-UP EXAM THAT WILL NOT INCLUDE A MULTIPLE CHOICE SECTION, BUT RATHER A SHORT-ANSWER PORTION INSTEAD THAT COVERS THE EXACT SAME CONCEPTS/IDEAS.

4. Students who are absent have one class day for every school day (weekends excluded) to make up any quizzes and tests. The amount of material we need to cover in AP Calculus makes it impossible for me to take time out of class to go over every problem assigned. You should plan on using tutorial time before school to get extra help with problems not explained in class.
5. Another option for students who miss lessons or who need to hear them again is to watch the videos of the lesson that are posted on YouTube (links on my website).

VI. THE AP EXAM

All students taking AP Calculus are expected to take (and pass) the AP exam. The test will be given the morning of Tuesday, May 9, 2017. I will pace the curriculum according to the AP syllabus so that we finish with at least three weeks available for exclusive in-class review and to take practice tests. I fully expect every student to satisfactorily complete the course and take the AP exam. You will be notified of the cost of the AP Exam when the College Board provides us with the new fee structure in February.

Course and credit options for students who pass the AP Exam will vary for each college. Please check with individual campuses.

Again, although taking the AP exam is not a requirement for the course, I expect all my students to take (and pass) it!

VII. FINAL THOUGHTS

This will be a rigorous course, but you will succeed if you work hard and actively participate in class. I expect the best from each and every one of you, and in return, you can expect my best efforts, providing the instruction, support, and encouragement for any diligent one of you to meet my expectations. Your success in this course is a joint effort among me, your parents, and of course, you the student. I earnestly believe that those who are successful in mathematics can be successful in *any* subject or discipline. The habits of mind and the required daily discipline developed in learning math are skills that transcend math and the classroom. These are valuable skills that will stay with you the rest of your lives and will help you be successful in many of your future endeavors. You are exceptional, and I know you are destined to do great things.

I look forward to working with you this year,

~Kevin Korpi

VIII. IMPORTANT INFORMATION

- Room: 903
- Website: www.korpiworld.com. **Monday Mails** are posted each Monday morning on this website, second link from the top.
- Email: kkorpi@nbsd.org **(this is the BEST way to get in contact with me)**
- Phone: 830-627-6093
- Tutorials: Weekdays beginning at 7:15A.M. (except on Wednesdays, when I have assigned hall duty).

Do not falter. Do not shrink. Just think out your work and work out your think.—Nixon Waterman