

# AP CALCULUS AB 2019-2020



MRS. D. BYRD

ROOM 226B

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PLANNING: 2nd Block

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REMIN: TEXT @\_\_\_\_\_ TO 81010 TO SIGNUP

GOOGLE CLASSROOM CODE: \_\_\_\_\_

## WHAT IS AP CALCULUS AB?

Calculus is the study of change. It provides the language we use to model the world around us and predict consequences. This will be a challenging but EXTREMELY rewarding course. It will hopefully open your eyes to a whole new world of and love for mathematics. This college level course will have a fast pace as we cover approximately one semester of college Calculus. Keeping up is a must!

## NECESSARY MATERIALS

1. A pencil must be used on major tests. It would be advantageous to use a pencil on class work and quizzes because it is easier to make corrections.
2. A graphing calculator is required for this course. The TI-84 will be the calculator most used in the classroom by the instructor.
3. A 3-inch three-ring binder with loose-leaf paper is the best notebook to keep organized. Tabbed dividers (10) are a great organizational tool. A student may not use his textbook as a notebook.
4. Each student will be issued a Calculus book. This book should be used as a resource at home and is not required during class.

Teacher Supply Wish List: 2 reams of white paper, Kleenex, Hand sanitizer

## EXPECTATIONS OF STUDENTS

1. Work only on AP Calculus during our class time. Any extraneous material may be taken up and returned at a later time.
2. Bring all necessary materials daily. (See above list)
3. Do work problems daily and give it your all! You are welcome to ask questions about problems, but you may be asked your approach on solving the problem before your question is answered.
4. Work problems and Extra practice problems should be labeled with the date and assignment so that you can use it to help you study for exams. Each problem should have three essential parts 1) Problem, 2) Work, and 3) Answer (that is called PWA). Homework should be neat and easy to follow.
5. Expect your teacher to work in a coaching capacity, which means she will expect you to use a little "elbow grease" to solve a problem instead of answering you immediately.
6. Respect others when thinking mathematically. This includes verbal discussions, board presentations, and individual time thinking through a problem.
7. Work collaboratively with other students and teacher. If you are asked to work on a problem, jump in there and do your best to solve it!
8. Ask for extra help, if needed. Schedule a time to meet with instructor or with a classmate in order to receive any additional help.
9. Each student should plan to attend the Saturday study sessions, take the mock-exam, and the national AP Calculus AB Exam on **Tuesday, May 5**. The tentative mock exam date and Saturday study session dates will be provided with the AP Student Understanding of Commitment Contract in the near future along with projected fees.

## EXPECTATIONS OF THE TEACHER

1. Make every effort to make this course a very challenging, yet exciting course.
2. Vary the methods of instruction to include individual and group work.
3. Introduce each student to the concepts set forth in the AP Calculus syllabus.
4. Introduce each student to "AP type" questions and how AP grades these questions.
5. Plan for adequate time to review all material so that students have an opportunity to put all concepts together.
6. Plan time for students to take a practice exam with the "AP type" questions and grade it in "AP style".
7. Work diligently to create a positive, fun atmosphere.

## SMITHS STATION HIGH SCHOOL

- 4228 Lee Road 430 Smiths Station, AL 36877
- Office: 334-664-4060
- Fax: 334-298-1304
- *If at any time you would like a conference with me or just need to speak with me, please do not hesitate to call or email.*

***Remind messages and emails are the fastest ways to contact me and the easiest methods for me to respond to, so please use these methods if you have them available.***

- Please make sure that you have read all of the information correctly and ask any questions of things that are not clear.
- Put my contact info into your phone/computer so that you can contact me in case of emergency.

- When you fill out your information sheet, there will be a place for you to sign that you have read and understood this syllabus.

1. Encourage students to put forth their best effort in homework and preparation of tests.
2. Communicate to the teacher if there are any problems.
3. Encourage the student to get extra help when needed.
4. Provide an environment conducive to studying and doing homework.
5. Encourage the student to get enough sleep so that he/she can perform at his/her best the next school day.
6. Encourage your student to communicate with you the mathematics that he/she learned that day. You never know, you might learn something new!!

### HOW IS THE GRADE DETERMINED IN THIS CLASS?

The nine weeks grade will be calculated using category points with 75% tests/projects/quizzes, and 25% classwork/homework. Test corrections will be allowed if and only if all homework has been completed and all quizzes corrected.

#### TESTS

- ⇒ A concept checklist that contains a list of the learning targets for each major test will be given to the student at the beginning of a new concept and will be used to help students assess their progress for each learning target.
- ⇒ Each test will contain multiple choice and free response questions that have “AP flavor”. Some tests questions may be similar to work problems, extra practice problems and quiz problems given during the unit. Some tests questions will require students to assimilate previous and new concepts in order to solve a problem.
- ⇒ Each test given may have calculator and non-calculator problems.
- ⇒ Students are expected to take the test on the assigned test day, regardless of absences, unless they speak with Mrs. Byrd before the testing period. Please put the school number in your cell phone and my e-mail address into your phone and/or your email program so that you can communicate with me about anything that may arise.

**Quizzes** Section quizzes will be given regularly and must be corrected.

**Classwork** consists of Stuff You Must Know Cold (SYMKC) daily warm up, journals and other writing assignments, participation during group activities, and group work. **Homework Problems** will be given on most days and will be checked for completion. The problems are designed to allow a student to practice and/or reinforce a concept. These are necessary for students to complete so that they have the skills to discuss the mathematics in the problems.

**Extra Practice Problems** will also be assigned when work problems are assigned. These are designed to further reinforce the concepts covered in the work problems.

### MAKE-UP WORK POLICY

Your presence in class is crucial. Please remember that learning and improvement is much more difficult if you are not in class. Please do everything possible to be with us every day!

- ⇒ Make-up work will be accepted for excused absences only. Late work will not be accepted.
- ⇒ When a student is absent it is his or her responsibility to get the missed work and to show the attendance excuse to Mrs. Byrd.
- ⇒ Quizzes missed due to excused absences must be made up as soon as possible, but within one week of the absence.
- ⇒ Tests missed due to excused absences must be made up as soon as possible, but within one week of the original date.
- ⇒ Failure to make-up work will result in a grade of a zero.
- ⇒ All make up work must be completed prior to the end of a grading period or arrangements made in advance with Mrs. Byrd.

**Respect yourself and others**

**Expect the best from yourself and others**

**Stay on task the entire class period**

**Praise others when they do well**

**Evaluate your progress and get help when you need it**

**Communicate with kindness**

**Take time to celebrate success**

*Respect for ourselves guides our morals; respect for others guides our manners.*

*Laurence Sterne*

WHEN STUDENTS HAVE A COMPLAINT OR DIFFERENCE OF OPINION ABOUT ASSIGNMENTS, DISCIPLINE POLICIES, GRADES, ETC., THEY SHOULD EXPRESS THEIR FEELINGS TO THE TEACHER PRIVATELY AND CALMLY AFTER CLASS.

## CLASSROOM PROCEDURES

These procedures are designed to help our class run smoothly and efficiently. You have a lot of information to learn and we need to make every minute of our time together count. We always need to be on task.

1. Before class – make sure you have all necessary materials **before** you come in the room. Submit all assignments by 8:40AM on due date through Google Classroom.
2. Entering class – come in the class **quietly** and orderly. Do not linger outside the doorway.
3. Upon entering – Place your cellphone in the charging station and other belongings on or under your desk – **keep the aisles clear**. Only Calculus supplies are allowed on your desk. Prepare for the daily Stuff You Must Know Cold assignment.
4. Always head your papers with your first and last name, period, date, and what the specific assignment is (include course name and unit).
5. After SYMKC – When you finish your warm up, review the previous day's lesson. The warm ups will be passed in at my request in the appropriate manner. **Each student will hand their paper to the person in front of them and place theirs on top. The first person in each row will then pass each stack down the row to the end where it will be placed in the appropriate box.**
6. Review time – Once warm-ups are passed in, I will take questions from the previous lesson. **Raise your hand to ask any questions and wait to be called upon. Do not interrupt another student or the teacher.** Ask questions wisely because our time is limited and I will only take about 15-20 minutes for review.
7. New lesson – We will begin our new lesson promptly at the end of our review time. Always copy down the date, lesson name, and objectives before your notes. Write down anything that I may **write** or anything you hear me **say** that seems significant. Some days we will have special activities to assist in our learning. Please pay attention to all directions. Notes will **not** be posted to Google Classroom.
8. Individual work time – During our lesson you will be given an opportunity to practice your new skills. This time is crucial to your learning. All persons should attempt to work the new problems and should be quiet – this is **individual** work time.
9. Partner work time – During our lesson, you may be given an opportunity to discuss your answers with a partner. You must **whisper** and **stop** when time is up.
10. Daily Assignment – You will be given an assignment **daily**. If time permits, at the conclusion of the lesson, you will receive your assignment and you will begin it **immediately**. **If you finish your assignment prior to the end of class, you should review the day's lesson, study new vocabulary, work on the or play one of the Calculus card games available on the rolling cart.**
11. Exit Slip – Occasionally, you will answer a few short questions on a slip of paper before leaving. They are designed to help you process new concepts, reflect on information learned, and express your thoughts about new information.
12. Before the end of class – please clean your area and make sure all trash is thrown away when you leave.
13. Dismissal – The bell does not dismiss the class, I do. When all trash is off the floor and all materials are returned, I will dismiss the class and you will leave quietly and orderly.
14. When I raise my hand at any point during class, students should be quiet. This is especially important when we transition from small groups back to the whole group.

## BUT WHAT IF...

1. I need to go to the restroom/locker/office... **Do not interrupt the lesson**, but privately, when students are working, discuss your emergency with me. I will determine the best solution to your problem at that time. You may not leave class during lectures and the first 15 minutes or the last 15 minutes. You have three passes per quarter – use them wisely.
2. I have a question... All questions are welcome at the appropriate time. Raise your hand and wait quietly for me to respond to you.
3. I need to sharpen my pencil... Raise your hand and wait quietly for me to allow you to go to the pencil sharpener. **Do not interrupt the lesson**. It would be wise to have more than one pencil ready at the **beginning** of class.
4. I need to throw something away... Place it on your desk or under your desk and either I will come by and pick it up or you may throw it away when I dismiss class. **Do not interrupt the lesson**.
5. I get sick... In the unlikely event that this happens, you may excuse yourself.
6. I was out yesterday... **Makeup work is your responsibility**.
  - Tests are only made up after school. Failure to complete make up work within the allotted time will result in a zero for each assignment.
  - Class notes should be copied from a classmate or from my notebook by request. I can not send digital copies.
  - SYMKC should be made up before or after school.
  - **You still have to take today's test.**
7. I get in trouble... I will either ask you to remain seated at the end of class or ask you to step outside in the hall for a brief conference. Your attitude during our conference will determine your fate.

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## SPECIAL ACTIVITIES...

1. Quiet Time – During an activity, **when I raise my hand**, it is time for all mouths to be **closed** and all eyes on me.
2. Group activities – I will form groups without any arguments. Follow my directions.
3. Class presentations – When you or someone else is presenting a problem to the class, you must be calm, clear, serious, respectful, and at the conclusion, you should be complimentary. Negative behavior will not be tolerated.
4. On test days, there will typically be no warm-up or review. When you finish your test, **raise your hand and I will come get it**. When tests are finished you may complete the next assignment given. There will be no talking, moving, walking, or other activities occurring that may distract any student taking the test.
5. Tests and quizzes are **timed** to help you prepare for future classes and high-stakes testing. Extra PRACTICE is the key to helping you prepare.
6. Some days I will allow you to use your electronic device but you must stay on task or face disciplinary actions. We may also use other technology which you will be assigned and responsible for during class. Listen carefully to my instructions when using this technology.

I hope this covers the majority of the questions you may have about this class.

I am looking forward to a very productive year.



COMING SOON!!!

Calculus AB

## Smiths Station High School AP Student Understanding of Commitment Contract



# Sign up for important updates from Mrs. D. Byrd.

Get information for **Silver 3: AP Calculus AB** right on your phone—not on handouts.

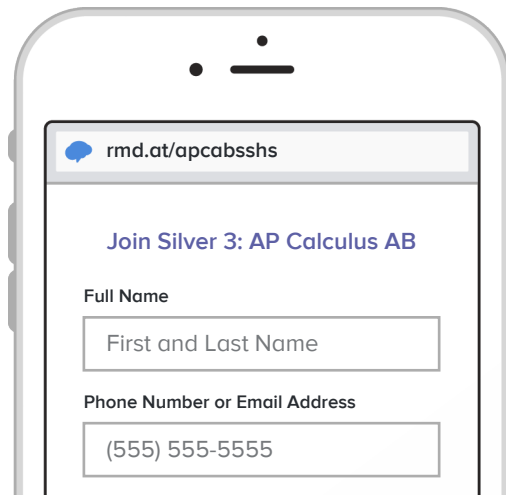
Pick a way to receive messages for **Silver 3: AP Calculus AB**:

**A** If you have a smartphone, get push notifications.

On your iPhone or Android phone, open your web browser and go to the following link:

[rmd.at/apcabsshs](https://rmd.at/apcabsshs)

Follow the instructions to sign up for Remind. You'll be prompted to download the mobile app.



**B** If you don't have a smartphone, get text notifications.

Text the message [@apcabsshs](https://t.me/apcabsshs) to the number **81010**.

If you're having trouble with **81010**, try texting [@apcabsshs](https://t.me/apcabsshs) to **(205) 490-7305**.

*\* Standard text message rates apply.*



Don't have a mobile phone? Go to [rmd.at/apcabsshs](https://rmd.at/apcabsshs) on a desktop computer to sign up for email notifications.