

San Gabriel Mission High School  
AP Calculus BC  
Ms. Sallo

**Expectations of the Student**

*A motivated young woman of depth who:*

- Listens carefully and looks closely.
- Comes to class prepared to learn.
- Brings all necessary materials to class.

*A young woman of character who:*

- Understands the importance of punctuality.
- Encourages and supports others.
- Is positive and considerate.

*A young woman of respect and integrity who:*

- Values the classroom environment and leaves food, drinks and gum outside the classroom.
- Thinks before she acts or speaks.

**Expectations of the Teacher**

- Engage students in lessons by being prepared each day for class
- Grade assignments in a timely manner, all tests and quizzes will be returned within one week
- Treat students fairly and with respect
- Be available outside of the classroom for help
- Give an ample number of assignments so each student can achieve their maximum potential

**Materials**

- Pencils and colored pens
- 2 whiteboard markers
- Spiral notebook for notes
- 1  $\frac{1}{2}$ " binder with a minimum of 10 dividers
- Graphing calculator, which is also required for the exam. (**\*Preferably TI-83, TI-84 or TI-84 Plus**)
- Primary Text: *Calculus of a Single Variable* by Larson and Hostetler, Publisher: Houghton Mifflin, c.2002

**Course Description:**

Calculus is a widely applied area of mathematics and involves a beautiful intrinsic theory. Students in this course will be exposed to both aspects of the subject. A.P. Calculus BC is a challenging and demanding college-level mathematics course organized around the themes of functions, graphs and limits: derivatives, integrals, applications, modeling, polynomial approximations and series. Within the context of these themes, the following topics are explored in depth: functions, graphs, and limits, continuity as a property of functions, the concept of a derivative, computation of derivatives, applied derivatives, techniques and applications of antidifferentiation, interpretations and properties of definite integrals, applications of integrals, fundamental Theorem of Calculus, numerical approximations to definite integrals, parametric, polar and vector functions, Euler's method, L'Hopital's rule, integration by parts, partial fractions, logistic growth functions, concept of series, series of constants and Taylor series. Students will work with functions represented graphically, numerically, analytically and verbally to emphasize the connections among these representations.

## Grading:

Grading is on a standard scale and is based on a point system. Curving will not be used. All assignments and tests will be graded using a rubric. Points will correlate to this rubric. Extra credit will not be given. Grades will be posted every week. Parents will be contacted in accordance with the parent contact policy of San Gabriel Mission High School.

## **Scale:**

A	95.0%-100%	C	73.0-76.9%
A-	90.0%-94.9%	C-	70.0-72.9%
B+	87.0-89.9%	D+	67.0-69.9%
B	83.0-86.9%	D	64.0-66.9%
B-	80.0-82.9%	D-	60.0-63.9%
C+	77.0-79.9%	F	0-59.9%

**Note: For college admittance purposes, a D is not passing.**

## Assignment Breakdown:

- **HOMEWORK (15%)**
  - Problems will be given every night including weekends and holidays. They will be collected and graded at the teacher's discretion.
  - To receive credit work must be shown.
- **CLASSWORK (15%)**
  - Classwork will be done in class each day and will cover the current lesson or any prior lesson.
  - Every problem assigned must be attempted and you need to use every resource at your disposal to successfully complete the assignment.
    - Resources include: your notes, textbook, each other, Edmodo and tutoring sessions
- **AP Sessions (10%)**
  - During the second semester, students will be required to attend review sessions to prepare for the AP exam. These dates will be discussed by the class and scheduled times will be determined by the majority.
  - Review sessions MAY be given during the mornings, afternoons, weekends and/or holiday sessions.
  - Attendance *and* participation at all sessions will be incorporated in the student's overall grade.
  - Students will be given 2 "free" days IF NECESSARY.
- **QUIZZES/PROJECTS (20%)**
  - Quizzes will be administered constantly throughout the year with/without announcements.
  - All quizzes may cover current or past material in the school year.
  - Projects will reflect material equivalent to that of a quiz.
  - The lowest quiz/project score will be dropped at the **end** of the semester and will be replaced with the highest quiz/project score.
- **TESTS (20%)**
  - Will be administered in a similar way to the AP exam. All exams model the AP format where part of the exam does not require calculator and part of the exam does require a calculator.
  - Each test is comprehensive and will cover all the material from the first day of the class.
  - As the exam approaches, tests will model the same timing for the multiple-choice section as well as the free response section.
  - Exams in the second quarter will be graded using a rubric similar to previous AP exam rubrics.
  - All tests dates will be announced at least 1 week before they are given
  - Corrections on tests will be made at teacher's discretion
- **FINAL (20%)**
  - Final exam will cover all material taught in the semester.

## AP Requirement

Because the class is an Advanced Placement class, students are required to take the AP exam in May; however, upon the teacher's discretion, a student may be recommended not to take the exam as the testing date approaches.

## Late Assignments:

- Makes ups for missed tests and/or quizzes will not be allowed unless arranged BEFOREHAND, or if it is EXCUSED due to illness. A doctor's note will be required. If the test and/or quiz is not made up within one week you will receive a 0.
- Homework will not be accepted late and may only be made up with a note from a parent/guardian. You will be allowed to complete the work in the same number of days you were absent. (i.e. If you miss 2 days of school you have 2 days to complete the work.)
- You are responsible for arranging time to make up missing classwork assignments, tests, quizzes or projects while absent.
- For group projects, you must notify your members if you are absent. Your part of the project must still be turned in by the due date; otherwise you will receive a 0.

## Media:

To illustrate examples of theories and concepts learned in Calculus students will use different types of media. Some examples of media that will be used are:

- YouTube clips, etc
- Good Will Hunting, etc. Some clips may be from rated R movies but will only be shown when relating to the subject material.

## Internet and Accounts:

The use of technology, most importantly the Internet, is a critical skill that students must learn. I will use the computer lab during some class sessions to help students use the Internet to research certain topics.

Edmodo is a secure and trusted environment for social learning in the classroom. It is used for discussions and announcements. It also allows me to post certain documents online for students to access such as worksheets and articles from home. This is extremely useful when absent from school. Links to different resources will also be available here. Students are required to enter the AP Calc BC classroom. This will be set up in the computer lab at the beginning of the year.

Before I begin this style of teaching, I need your permission to allow your child to create an Edmodo account. Please sign below if you will allow your student to open an account.

## Positive Consequences:

- Appropriate behavior will be recognized and positively rewarded.

## Or else:

1. Verbal warning
2. Detention- written action plan to behavior and parent contact
3. Parent conference

***Parents will be contacted when classwork is not done consistently and/or when behavior issues arise that need parental support.***

### **Last Words of Encouragement:**

I look forward to having a wonderful year with you. Feel free to ask questions at any time. I am here to help you when you get lost and I believe that you will succeed. All you need to do is work hard and believe in yourself to succeed.

I am available for help with an appointment and/or drop-in tutoring on Tuesdays/Thursdays afterschool and Mondays at lunch.

You can reach me by email (preferred communication) or phone.

- Email: [MSALLO@SGMHS.ORG](mailto:MSALLO@SGMHS.ORG)
- Phone: (626) 282-3181 ext. 103

For further clarification on discipline and attendance policies, please refer to the SGMHS Student Handbook.

***NOTE: The teacher reserves the right to make changes, additions, and deletions to the syllabus during the course of the year.***

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**AP Calculus BC**

**Print Student Name:**

**Print Parent Name:**

**Parent Email:**

**Contact Phone Number:**

**Best time to be contacted:**

**Parent Signature:**

**Student Signature:**

**COMMENTS:**