



*San Marin High School*  
*Course Syllabus, Policies, & Procedures*  
*Fall 2019-Spring 2020*

<b>Course:</b> AP Calculus BC	<b>Room:</b> 502
<b>Instructor:</b> Ms. Merkin	<b>Phone:</b> (415) 898-2121
<b>Website:</b> <a href="http://msmerkinmath.com">msmerkinmath.com</a>	<b>Email:</b> <a href="mailto:jmerkin@nUSD.org">jmerkin@nUSD.org</a>

**Course Description:** AP Calculus BC (*Prerequisite: "B or higher in AP Calculus AB"*)

Welcome to AP Calculus BC! This course is designed to be fast paced and quite rigorous. While this course will be challenging, the applications of calculus are extensive and quite intriguing! AP Calculus BC covers all the topics in the AB course while adding the study of series and polar equations. The four main topics covered in AP Calculus BC are limits, derivatives, integrals, and series. Students will learn how they can use calculus to analyze situations as well as model them. This course typically covers both college level Calculus I and Calculus II at most universities upon passing the AP Calculus BC exam.

**Course Outline:**

Fall Semester	Spring Semester
Unit 1: Limits & Continuity	Unit 7: Differential Equations
Unit 2: Differentiation (Definition & Basic Rules)	Unit 8: Applications of Integration
Unit 3: Differentiation (Composite, Implicit, & Inverse Functions)	Unit 9: Parametric Equations
Unit 4: Contextual Applications of Differentiation	Unit 10: Infinite Sequences & Series
Unit 5: Analytical Applications of Differentiation	
Unit 6: Integration & Accumulation of Change	

**Required Supplies:**

- One 1 or 1.5 Inch 3-Ring Binder
- Loose Leaf Graph Paper
- Pencils & Erasers
- Graphing Calculator (Either TI-83 or TI-84)
- Colored Correcting Pen
- Chromebook (Charged!)
- Chromebook Charger

**Text:**

*Rogawski' Calculus for AP (2nd Edition)* by Rogawski Cannon

**Grading Policy:**

Grades will be posted in Aeries and will be accessible to both parents and students through the San Marin website ([sanmarin.nusd.org](http://sanmarin.nusd.org)) under the "Students" tab. Grades will be updated every two weeks.

Grades shall be reported at the end of each progress reporting period for all students. Progress reports will be accessible to parents online approximately every five to six weeks. Whenever a student falls below a C- after the second Progress Report for either semester, the teacher shall arrange a conference with the student's parent/ guardian and/or send a written report.

**Grading Scale:**

Category	Percentage
Classwork & Participation	10%
Homework	10%
Quizzes	15%
Exams	45%
Finals	20%

Letter Grade	Percentage
A	90-100%
B	80-89%
C	70-79%
D	55-69%
F	Below 55%

**Attendance:**

It is necessary to come to class on time and prepared in order to be successful. However, we are all human and tardies and absences happen.

In the case of a tardy:

- Students are considered tardy if they are not in the room and seated by the second bell.

- If the student is tardy excessively, they will be referred to the Learning Lounge to go to a mandatory study hall.

In the case of an excused absence:

- Any homework or classwork must be turned in by the *following two class periods*. For example, if a student is absent on Wednesday, they have until Friday to turn in any work that was missed on Wednesday.
- If an exam or quiz was missed, the exam or quiz must be made up **the next day the student returns to class**.
- All handouts that may have been missed are located on my website to print or near the front of the classroom on the wall.
- If a student is absent for an extended period of time (longer than a week) please make an appointment with me to discuss make-up options.

### **Classwork and Homework:**

There will be daily classwork assignments. Classwork may be accompanied by a warm up problem and notes. All assignments will be organized into a binder and logged in to a table of contents. Binders will be checked for quiz credit at the end of each unit. Classwork assignments will be uploaded to Google Classroom for credit. Classwork needs to be uploaded by the beginning of the next class period or else it is considered late. In the case of technical difficulties you must email me to make arrangements before the assignment is due. Each classwork assignment will be worth 5 points. Late classwork will receive half credit and will only be accepted within the current unit.

Each night there will be about 15 to 30 problems assigned for homework. The homework will be listed both on the whiteboard in class and on my website. Homework will be corrected at the start of each class and students will grade their homework based on the following 5-point rubric:

Score: ____ / 5	Description
5	Work is organized and all problems are completed. Each problem has a written out solution with all necessary steps and justifications included. Work contains little to no error.
4	All problems are completed. Each problem contains most of the necessary work and justification. Work contains some errors, but for the most part they were minor.
3	All problems are completed, but some key steps and explanations are missing. Work contains several errors.
2	Most problems are completed, but little to no work was shown. The solutions were essentially copied off of homework help.
1	A few of the problems were completed, but there is not a lot of work or justification provided for any of the solutions.
0	The assignment was not completed.

If a homework assignment is turned in late, the student will receive one point less based on the rubric scale. For example, if a student produced 4 level work, they would receive a 3. Late assignments will only be accepted if it is an assignment within the current unit, in other words once a unit ends no late work for that unit will be accepted.

### **Quizzes and Exams:**

In each unit, there will be short quizzes and a summative assessment.

All exams will be comprised of free response questions in which students are expected to demonstrate their understanding and explain their reasoning. Each unit exam will be cumulative. At the end of each semester, students will take a comprehensive exam.

In the case a student is absent on the day of the exam, they will be taking the exam the next class day they are back. Students are responsible for any work or notes they miss on the day of the retake.

### **Advice for Success:**

1. Don't be afraid to make mistakes. Mistakes are a part of the learning process and everyone makes them!
2. Come prepared for class. It is essential that you have what you need and come to class on time in order to be successful.
3. Ask questions! If you are not understanding something do not hesitate to ask questions or get some extra help.
4. Contribute to your team. The best way to learn math is in a collaborative environment. There will be a point in time that you will need to lean on your team for help and they may need to lean on you!