

SAN MARIN HIGH SCHOOL COURSE SYLLABUS, POLICIES, & PROCEDURES FALL 2019-SPRING 2020

Course: AP Calculus BC	Room: 502
Instructor: Ms. Merkin	Phone: (415) 898-2121
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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:

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

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

Workbook:

Workbook for AP Calculus by Jordan Merkin

- Workbook pages and problem set pages are provided on Google Classroom. You may either print them out, edit the PDF, or take notes on a separate sheet of paper.

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) 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	Category
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.

In the case of a tardy:

- Students are considered tardy if they are not in the room and seated by the second bell or if they are not logged into Zoom by the start of the period.
- If the student is tardy excessively, they will be referred to administration and a parent meeting will be arranged.

In the case of an excused absence:

- Any homework or classwork must be turned in by the *following class period*.
- If an exam or quiz was missed, the exam or quiz must be made up **the next day the student returns to class** or **during the next tutorial**.
- All handouts that may have been missed are located on my website and Google Classroom.
- 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, Independent Learning Assignments & Homework:

There will be daily classwork assignments. Classwork assignments will be group activities, taking notes on lectures, or completing problem sets.

Video lectures and guided notes will be assigned for independent learning time. Independent learning assignments are NOT homework assignments and are intended to be completed during the designated tutorial/independent learning time embedded into the schedule.

At the beginning of each unit, your homework problems for the unit will be uploaded. These problem sets are due on the first day of the next unit. Late homework will receive a 10% penalty for each day it is late. If you need an extension, please email me **before** the due date.

Quizzes and Exams:

In each unit, there will be short quizzes. Throughout the semester, there will be two midterms and a final.

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!