

# SOUTHLAND COLLEGE PREP CHARTER HS

## COURSE SYLLABUS

### AP CALCULUS BC

**TEACHER:** Mr. Brian Wales  
**ROOM:** 303 (& Google Meet)

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#### I. COURSE DESCRIPTION

This is a standard course that covers two semesters of Introductory College Calculus. The first semester, for the most part, will be review of AP Calc AB. Students completing this course take the Calculus BC Advanced Placement examination. This course follows the program recommended by the Committees on the Undergraduate Program in Mathematics (CUKPM), the National Association of America, and The National Council of Teachers of Mathematics. The strategy for achieving the objectives outlined in these recommendations falls into four categories 1) problem solving, (2) technology, (3) communicating mathematics, and (4) real-life applications.

Prereq: Pre-Calculus Honors, Pass the Pre-Calc Test Out Exam, or Complete Calc AB

#### II. COURSE GOALS

- A. Explore the skills and strategies underlying calculus
- B. Understand concepts of calculus (history background of concepts)
- C. Review all Pre-Calculus topics necessary for college Calculus
- D. Explore graphing utilities and other technology to solve calculus problems
- E. Review & master the manipulative skills of differentiation and integration
- F. Explore sequences, infinite series, as well as parametric, vector, & polar functions
- F. Continue development of applying principals of calculus to practical situations
- G. Take and Pass the AP Calculus BC exam on **Monday, May 13<sup>th</sup>, 2024!**

#### III. INSTRUCTIONAL PHILOSOPHY

Every student can and will master all the required material for preparation for AP Calculus BC Examination in May 2022! To achieve this mastery, each student must complete all tasks, be involved in classroom discussions, and seek out assistance on all material that may be more difficult or requiring more reinforcement. Resources will be available on Google Classroom, as well as explained in class and on Google Meet, to achieve success in this class. To achieve your goal of success in this class, be willing to be frustrated, confused, and struggle with material. Keep in mind that struggle leads to progress. If you do not struggle at new material then you are not making progress in your knowledge and mastery of that material.

#### IV. MAJOR COURSE PROJECTS AND/OR ASSIGNMENTS

- A. Daily Homework / Class work (AP practice problems)
- B. Weekly Quizzes
- C. Unit Assessments / Tests
- D. Class Participation / In-Class Discussions
- E. Weekly Free Response Questions (starting in November or December)

## V. ASSESSMENT PLAN

### A. Point System

Points are based on size of assignment, level of assessment, and importance of assessment.

### B. Grading Scale

Grade	Scale	Description
A	93-100%	Exceeds Expectations; Independent learner; superior work; all work completed on time at an exceptional level of quality and effort;
B	87-92%	Meets Expectations; Semi-independent learner; above average work; all work completed on time; did quality work with a few flaws;
C	78-86%	Passing but does not meet some standards; Dependent learner; average work; most completed on time showing average effort;
D	70-77%	Passing but only meets minimum standards; Dependent learner; average work; most completed on time showing average effort;
F	<69%	Failing, does not meet minimum standards; Failure; does not meet standards or expectations;

### C. Components of the Grade

The points you accumulate versus the total points assigned for the quarter determine your quarter grade. A majority of the points will be from Tests, Quizzes, and Daily Homework.

### D. Calculation of Semester Grades

1 <sup>st</sup> quarter grade	40%
2 <sup>nd</sup> quarter grade	40%
Semester Exam	20%
<b>Final Semester Grade</b>	<b>100%</b>

### E. Rework Policy For Assessments

1. Students will be given an opportunity to rework classroom assessments to meet standards if the student scored below a 70%. The student must show that effort has been made to improve. The rework opportunity will be rescinded if a student does not show effort or abused rework opportunities.
2. If a student chooses to rework an assessment, a 70% is the highest grade that will be given. Deadline will be given for each rework. If the student does not meet the rework deadline, the opportunity will be rescinded.

## VI. COURSE REQUIREMENTS

### A. Materials: Each In-Class student must bring the following to class daily:

1. Textbook (online text will be available on the Chromebook)
2. Pen and pencil
3. Texas Instrument Calculator (Ti-83 or Higher) **\*\*Must Have!!!**
4. Folder (preferably a 3-ring binder) to hold sequential class notes
5. Graph Paper
6. Highlighters for notes
7. Bring necessary materials home for Google Meet Days

B. Daily Expectations

1. Keep a binder (or computer folder) for class notes, homework, quizzes and tests, etc.
2. Use class time to learn, ask questions and work cooperatively with other students and the teacher (with social distancing in mind).
3. Complete required homework assignments with diligence and promptness.
4. Present problems in class (within social distancing guidelines).
5. Adequately prepare for and complete all quizzes and tests.
6. Complete and attempt all Free Response questions.

C. General Homework Expectations

Completion of ALL homework is the most important step to succeeding in this class. If you do not do the homework consistently then you cannot expect to earn a high grade in this class. There will be time to go over homework questions during class time (either in the classroom or on Google Meet). The purpose is to learn from your mistakes. Homework will be collected each week on Google Classroom (pay attention to due dates) and checked for completion. Full credit will not be given unless all work is shown. If you are stuck on a problem, explain or show what work you have attempted. Late work will be accepted for half credit the day after the due date and no credit for more than one day late. The grade book closes to any late work approximately one week before the quarter ends, after that missing assignments remain at zero credit. Hard copies of missing assignments or handouts will not be available in the classroom this year, due to social distancing and hygiene protocols. You have the same number of days to make up an assignment as the number of days you were absent (absent two days, make up work due in two days.) Turn in all make up work directly to Google Classroom for full credit.

D. Extra Help

We will have built in work days to get help on content as the year goes on. If additional help is needed, please contact me to see what times might be available to get help. Please seek help as soon as you begin experiencing difficulty. I am here to help you learn!

## VII. BEHAVIOR EXPECTATIONS

A. Teacher Creed

1. As your teacher I will not tolerate any student in this classroom stopping me from teaching for any reason whatsoever.
2. As your teacher I will not tolerate any student in this classroom stopping another student from learning for any reason whatsoever.
3. As your teacher I will not tolerate any student in this classroom doing anything that is not in the best interest of this class or in your best interest.

B. Classroom & Google Meet Rules/Consequences

1. All school rules, stated in your student handbook, will be enforced.
2. You are expected to participate in discussions and class work, to answer when called upon, and to be attentive to material being presented. Be an active member of this class.
3. Be prepared and on time for class (including remotely). Tardiness will not be tolerated.
4. Be respectful to others and their property.
5. Be respectful of the opinions, input, and goals of your classmates and

teacher.

8. NO food or drinks are allowed in the classroom at any time.
9. Electronics (i.e. cell phones or other personal devices that are not issued by the school) are not permitted in class.  
If you bring an electronic device to class, it will be taken to the office and cannot be retrieved until a parent comes to school to pick it up.
8. I dismiss you from class, not the bell. Please stay in your seat until the bell rings. No lining up at the door.

### **VIII. PARENT COMMUNICATION**

Strong parent-teacher communication is key to student success in this class. This syllabus (outlining course requirements and student behavior) is posted here on Google Classroom, and on my teacher page, to give a clear view of the expectations and responsibilities in class and online. Progress and grade reports are sent home and parents are also contacted by phone, email, or letter when necessary. You may reach me by phone before or after school at 708-748-8105 or by email at [bwales@scphs.org](mailto:bwales@scphs.org). I recommend trying to reach me by email first, it's the quickest way to get my attention on any urgent issues or concerns.

**Please fill out the Syllabus Acknowledgement Google Form for this syllabus by Monday, August 21, 2023 to indicate that you and your student have received and read the syllabus & rules for AP Calc BC. Also, please indicate clearly what the best parental contact method will be for you this year.**