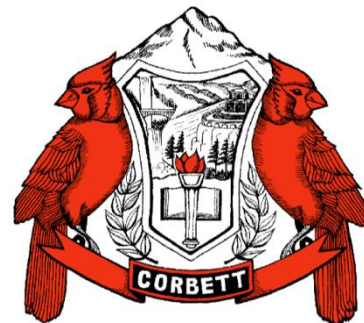


## Course Name: AP Calculus BC

Calculus AB is primarily concerned with developing students understanding of the concepts of calculus. Broad concepts and widely applicable methods are emphasized. Regular usage of the graphing calculator will be an integral part of the program. We will also develop our skills in visualization, constructing mathematical arguments, and using algebra with calculus to efficiently solve problems. The following Goals will be especially helpful in our journey:



- Work with functions represented in a variety of ways
- Understand the meaning of the derivative in terms of rate of change and local linear approximation
- Understand the meaning of the definite integral as a limit of Riemann sums and as the net accumulation of change
- Understand the relationship between the derivative and the definite integrals as expressed in the Fundamental Theorem of Calculus
- Communicate mathematics verbally and in written sentences
- Model a written description of a physical situation with a function, differential equation, or an integral
- Use Technology to help solve problems, experiment, interpret results, and support conclusions

Students will demonstrate effective teamwork during weekly group work activities, including using appropriate communication skills to give and receive information orally and in writing. Students will exhibit appropriate work ethic and behavior in class and on assignments and apply decision-making and problem-solving techniques to address problems that may arise. In utilizing these skills in our class, students will practice skills needed for employment and career experiences post-high school.

### What Resources do I have?

- (Optional) Text: Single Variable Calculus: Early Transcendentals with Vector Functions (Stewart: 2012)
- (Optional) Text: Calculus: Graphical, Numerical, Algebraic (Finney, Demana, Waits, Kennedy: 2007)
- Calculator (Suggested TI-84 Plus) - Corbett High School has a few loaner calculators for those in need.

### What Should I Be Doing When Class Starts?

- You should arrive to class ready to participate in any opening activity Mr. Binschus has for the classroom to engage in. The first five minutes of class will typically be reserved for Entrance Quiz.
- Headphones/Earbuds and music devices should be removed.
- **You should have cell phones placed in the appropriate cell phone storage pocket.**

### What Should I Be Doing When Class is Ending?

- You should be actively engaged in performing the suggested/expected homework. You should be assisting others in being successful in the classroom.

#### Mr. Binschus' Class Expectations

**Be Respectful****Have Fun****Be Responsible****Work Hard**

### How Is My Grade Calculated?

<b>88 - 100% = A</b>	<b>78 - 87.99% = B</b>	<b>65 - 77.99% = C</b>	<b>&lt;65% = Incomplete</b>
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- There will be five categories for your grading:

<b>40%</b>	<b>Entrance Quiz</b>	<ul style="list-style-type: none"> <li>▪ Each day of class will begin with two small entrance quizzes, categorized by skill, and graded on a 4 point rubric. The average of all quizzes for the particular skill will be recorded (with the lowest score dropped). Each average will be given a corresponding letter grade.                             <ul style="list-style-type: none"> <li>○ 3.5 – 4 = A+ (100%)</li> <li>○ 3 – 3.49 = A (95%)</li> <li>○ 2.5 – 2.99 = B (85%)</li> <li>○ 1.75 – 2.49 = C (75%)</li> <li>○ &lt;1.75 = N (50%)</li> </ul> </li> <li>▪ The majority of these questions will be pulled directly from homework and notes.</li> <li>▪ <b>These skills are available to retest.</b></li> </ul>	
<b>20%</b>	<b>Big Four Skills</b>	<ul style="list-style-type: none"> <li>▪ Periodically, we will take a larger version of an Entrance Quiz that relates to one of the Four Key Skills in class. These skill tests will be graded as percentage of available points earned. The average of all quizzes for the particular skill will be recorded (with the lowest score dropped). The raw percentage average will be recorded.</li> <li>▪ While these skills are comprehensive and explored throughout the year, the majority of relevant content can be found as described below.                             <ul style="list-style-type: none"> <li>• Derivatives AB Coursework / Weekly Reviews</li> <li>• Integrals AB Coursework / Weekly Reviews</li> <li>• Definitions, Formulas, Identities AB Coursework / Weekly Reviews</li> <li>• Series Convergence Sequence &amp; Series Unit</li> </ul> </li> <li>▪ <b>These skills are available to retest.</b></li> </ul>	
<b>15%</b>	<b>Unit Tests</b>	<ul style="list-style-type: none"> <li>▪ Each unit test which will multiple choice.</li> <li>▪ If a student scores below 25% on the unit test, no score will be given.</li> <li>• <b>The unit tests can be retaken once for a better score</b></li> </ul>	As these categories are assessed at AP Levels the following rubric will define the awarded grade.  >66% = 5 (100%) 55 – 65.99% = 4 (95%) 44 – 54.99% = 3 (90%) 33 – 43.99% = 2 (80%) 25 – 32.99 % = 1 (60%) <25% = RETEST
<b>15%</b>	<b>Term Final</b>	<ul style="list-style-type: none"> <li>▪ Term One Final: Full Scale Practice AP Test</li> <li>▪ Term Two Final: Full Scale Practice AP Test</li> <li>▪ Term Three Final: Full Scale Practice AP Test</li> <li>▪ <b>The term final cannot be retaken.</b></li> </ul>	
<b>10%</b>	<b>Weekly Online Quiz</b>	<ul style="list-style-type: none"> <li>▪ Every week a weekly quiz will be posted on the class website.</li> <li>▪ This is an open note, open peer quiz and is due on the posted due date.</li> <li>▪ The assignment is auto-graded upon submission.</li> <li>▪ Sometimes this quiz will be in the form of an <b>in class</b> AP Style Free Response Question</li> <li>▪ If a student scores below 25% on the weekly quiz, no score will be given.</li> <li>▪ Weekly quizzes will be curved to a six point rubric, similar to the 5 point rubric to the right.</li> </ul>	

Mr. Binschus' Class Expectations

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## What If I Am Struggling? Is There Tutoring?

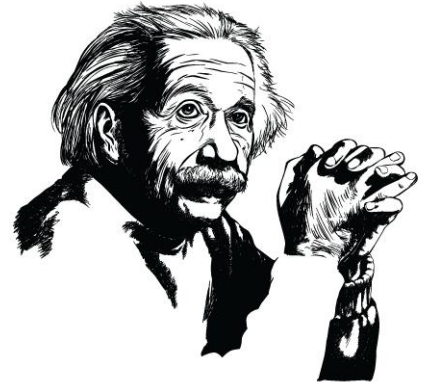
- **YES!** Mr. Binschus thrives on tutoring. He typically gets to school around 7:00 am every day and is available after school until 4:30 pm on Monday, Tuesday, and Wednesday. Tuesdays are reserved for retesting skills and unit tests.
- **YES!** The Corbett National Honors Society members offer peer tutoring. If you would like to schedule one on one tutoring, please contact Mrs. Duprey to set up a peer tutor.

## What If I Am Absent?

- Students are responsible for looking at the course website to preview material covered while they are absent.
- <https://sites.google.com/a/corbett.k12.or.us/binschus>
- Absent students can talk with Mr. Binschus to collect any necessary papers.

## Why All The Questions?!?!

- All knowledge begins with a question. It's great to ask questions – to yourself, to your friends, to the teacher. It's *wonderful* to be curious. Much of this class will be composed of questions – they will be our guide to creativity, complexity, and comprehension. Aren't you excited?



**“The important thing is not to stop questioning. Curiosity has its own reason for existing.” -Albert Einstein**

# Ask Good Questions, Conquer the World

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"As a student enrolled in this class, I affirm the principle of academic integrity and commit to upholding integrity by completing all academic assignments in the manner expected, informing the instructor of suspected instances of academic misconduct by my peers, and fully engaging in the class and its related assignments for the purpose of learning." I, \_\_\_\_\_, understand the details outlined above. I will work to uphold these expectations in the classroom.

Student Signature: \_\_\_\_\_

Parent Signature: \_\_\_\_\_ Email Address: \_\_\_\_\_

To receive messages via email, please email: chs-calcab@mail.remind.com  
or send the following text to 81010 : @chs-calcbc

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