

syllabus 2019-2020

mt si high school

AP Calculus AB

Evaluation

Why take AP Calculus?

Calculus is a FUN, rigorous, college level, math class with several benefits:

- Calculus is the foundation for future study in most STEM fields.
- Calculus has clear links to and applications within physics, finance, engineering, and many other fields.
- Scoring a 4 or 5 on the AP Calculus AB exam can earn up to 5 math credits at most 4 year colleges. Its rigor will prepare you for Calculus BC and more advanced math classes in many degrees.

General Course Topics

- P: PreCalculus review (summer)
- 1: Limits and Continuity
- 2: Derivatives
- 3: More About Derivatives
- 4: Applications of the Derivative
- 5: The Integral
- 6: Applications of the Integral
- 7: Additional Practice for AP Exam
- 8: Additional topics as time allows

Instructor

Melanie Breitbach
room 5207
breitbachm@svsd410.org
425-831-8161

Textbook

Calculus for the AP Course by Sullivan and Miranda

Calculators

A TI-84+ graphing calculator is required (talk to me if you already have a different model).

Grading Scale

The math department adheres to the standard Mt Si High School grading scale.

Course grade will be based on:

Tests:	65%
Daily Work:	20%
Final Exam:	15%

- * A final exam is given 2nd semester only. First semester this category will assume the Test category average.
- * 2 Test Retakes will be offered with a 75% maximum score each semester. Students will be able to earn back a few points lost on each test through a designated test corrections procedure.
- * Quizzes are included in Daily Work as they are formative assessments.
- * Unless otherwise noted, all assignments are due the day after they are assigned. Students have 1 day for every day of an excused absence to turn in work that was assigned during the absence.
- * Students can turn homework in late on occasion but not a regular basis, since Calculus topics are extremely sequential. No late homework will be accepted after the day of the corresponding chapter test. A maximum of 2 late assignments can be turned in on any given day.

No Extra Credit will be offered.

Grading

"A" students attend class regularly, turn in all work on-time, bring necessary materials to class, take thorough notes, manage time effectively, participate in class discussions, come for extra help as needed, and consistently demonstrate mastery of the content on assessments.

Tentative Pacing Guide for AP Calculus AB

<i>September</i>	Complete and assess Chapter 2 Begin Chapter 2
<i>October</i>	Complete and assess Chapter 2 Begin Chapter 3
<i>November</i>	Complete and assess Chapter 3
<i>December</i>	Begin Chapter 4
<i>January</i>	Complete and assess Chapter 4
<i>February</i>	Begin Chapter 5
<i>March</i>	Complete and assess Chapter 5 Begin Chapter 6
<i>April</i>	Complete and assess Chapter 6 Semester Final is a complete AP practice test
<i>May</i>	AP Exam Begin Additional Topics
<i>June</i>	Complete and assess Additional Topics

Additional notes from Ms. Breitbach:

- No drinks consumed in the classroom, except water (please bring a reusable bottle).
- Please avoid all peanut and tree nut products as we have several allergies present.
- Be respectful. No cellphones or headphones during learning time. They are allowed (if used appropriately) during work time.
- One-to-one devices are a privilege and not to be used to distract from daily learning. Always honor professional courtesy in use of technology devices.
- Come to class on time.
- Students can earn back some homework points by coming for extra help right away.
- Students are required to monitor Schoology account. Be sure to set alerts (for texts or emails).
- All grades are kept updated regularly online for this class.

I teach periods 1, 2, and 3 only. I will often stay after school to help students. I am available *every* day before school, and most days I will also be available during both lunches most days. Please contact me at any time with questions:

Ms. Breitbach
(425) 831-8161
breitbachm@svsd410.org or through Schoology