

AP Calculus AB Syllabus

Mr. Leckie (Room C109)

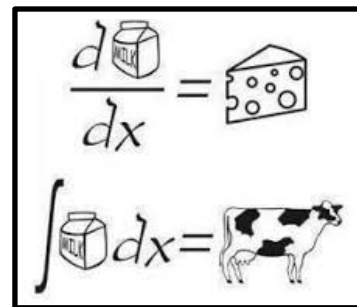
Credits: 1

Textbook: Calculus: Graphical, Numerical, Algebraic 4th ed., Finney.

Available online at <http://phschool.com> using **Web Code: AZE – 0646**

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Prerequisites: Successful completion of Algebra 1, Algebra 2, Geometry, and PreCalculus.



Course Description

AP Calculus AB is roughly equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. The AP course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions. Each student must take the Advanced Placement examination through The College Board for possible college credit. Students entering this course should have successfully completed Pre-Calculus and have a teacher recommendation. This course is open to all students willing to attempt the rigors of the prescribed curriculum.

Course Standards ... course overview and other good stuff from College Board on AP Calculus AB

<https://apcentral.collegeboard.org/courses/ap-calculus-ab?course=ap-calculus-ab>

Course Outline: Very tentative and Highly Subject to Change due to Weather and Testing Schedules.

Quarter 1: (Ends 10/22/19) We will begin the year with HS101 and a short review of Pre Calculus skills

Unit 1: PreRequisites for Calculus (5 blocks ... Unit 1 Test on Aug 29/30 2019)

Unit 2: Limits & Continuity (7 blocks ... Unit 2 Test on Sept 19/20 2019)

Unit 3: Derivative Rules Part I (8 blocks ... Unit 3 Test on Oct 11/14 2019)

Quarter 2: (Ends 1/16/20) Unit 6 will be start before the end of Q2 ... assuming we aren't interrupted w/weather delays!

Unit 4: Derivative Rules Part II (8 blocks ... Unit 4 Test on Nov 5/6 2019)

Unit 5: Applications of Derivatives (10 blocks ... Unit 5 Test on Dec 9/10 2019)

MIDTERM EXAMS (3 blocks to review and test) will be given after Winter Break. The Schedule is still TBD.

Quarter 3: (Ends 3/20/20) We will finish all new material by the end of this quarter ... again, weather permitting!

Unit 6: Definite Integrals (10 blocks ... Unit 6 Test on Jan 30/31 2020)

Unit 7: Integration Techniques & Differential Equations (11 blocks ... Unit 7 Test on Mar 4/5 2020)

Unit 8: Applications of Definite Integrals (5 blocks ... Unit 8 Test on Mar 18/19 2020)

Quarter 4: Q4 is designed to prepare for the exam. You have almost 7 weeks (including spring break) to prepare!

You will be provided with at least 5 full AP exams for practice, some of these may NOT leave the room!

There will be a MOCK EXAM very tentatively scheduled for April 2/3 and 6/7 2020.

We have approximately 10 days (plus the two mock exam days) of class time to prepare!

Use your time wisely!!!! Your performance on the AP exam depends more on the effort you put forth here!

THE AP EXAM IS SCHEDULED FOR MAY 5th, 2020 @ 8 AM.

- AP Exams go from May 4 – 15, 2020. EOC Exams are scheduled all throughout May.

For a complete listing of AP test dates: <https://apcentral.collegeboard.org/courses/exam-dates-and-fees/exam-dates-2020>

Classroom Expectations and Consequences:

I expect you to ...

- be on time & prepared when class begins (bell or no bell)
- put forth your absolute best effort every day
- treat everyone better than you want to be treated
- listen to, read, and follow directions the first time
- Sign up for REMIND!! @ar-calcab**

When expectations are not met:

- 1st offense: Verbal warning
- 2nd offense: Parent Contact & Lunch Detention
- 3rd offense: Referral to Guidance
- 4th offense: Referral to an Administrator.

Class Procedures: Be in your seat and prepared with all materials when the bell rings.

During Class: Your participation is crucial to your success. If you must leave for any reason, gain permission before you do. Do not stop instruction to ask to leave the room unless it is an emergency.

End of Class: Class ends when then teacher dismisses the class. DO NOT pack up and stand by the door before the bell rings.

Calculators: It is highly recommended that you have your own calculator at home! ,, We use the TI-84+ in class.

Grading and Assessments

Quarter and Semester Grades	Final Exam and Final Course Grades
<p>Each Quarter (Q1, Q2, Q3, and Q4) is composed of</p> <ul style="list-style-type: none"> • 15% Classwork/Homework • 30% Quizzes/Activities • 55% Tests (includes Midterm test) <p>Each quarter contributes 50% to the semester grade. Semester 1 (S1) = (Q1 + Q2)/2 Semester 2 (S2) = (Q3 + Q4)/2</p>	<p>There is no final exam in this course when the AP exam is taken. Failure to take the AP exam on the day it is given may require you to pay \$40 for the missed exam and you may earn a 0 on your final exam grade. Paying the late fee in additional the \$40 missed exam fee will allow you to take the late exam.</p> <p>The Final Course Grade (Y1) is composed of</p> <ul style="list-style-type: none"> • 50% Semester 1 • 50% Semester 2 <p>Final Course Grade (Y1) can be calculated as follows:</p> $Y1 = (2*S1 + 2*S2)/4$

SC Grading Scale	A	B	C	D	F
	90 – 100%	80 – 89%	70 – 79%	60 – 69%	Below 60%

- Attendance is CRUCIAL!! You have a responsibility to handle your missed class time due to school activities BEFORE you miss class, NOT after! Waiting till the next class period means you are now 2 class periods behind!!!
- Homework may include MathXL and in class assignments. MathXL assignments are due at midnight of the due date. MathXL assignments may be completed up to one week late (time permitting) with a 20% deduction for late work.
- Quizzes will be announced and may include group quizzes. Groups may be generated randomly. You are NOT required to join a group, but may not opt out after groups are selected. In order to participate in a group quiz, you MUST be in attendance the day the quiz is given. Exceptions will be given only if pre-arranged and taken PRIOR to being absent for school activities (like class field trips) ... this is YOUR responsibility to arrange.
- Unit Tests (and Midterms) are cumulative. An opportunity to improve your test grades will be given after each unit test, provided there is time left in the quarter. Deadlines will be given.

Interventions and Opportunity for Extra Help

ILT is available for extra help and making up missing work. Poor performance may result in your required attendance for SLT. Quarter Recovery options will be given if a student is unsuccessful in completing any of the first three quarters. If necessary, recovery options will be discussed with the student detailing what must be completed and any deadlines for completion.

Extra Resources for Students

<p>ARHS & DD2 online programs:</p> <p>USA Test Prep: www.usatestprep.com. Click on the login button on the top right hand side. The username is ashleyridgesc and the password is newton33.</p> <p>Career Ready 101: This is an online resource to prepare for Work Keys. Careerready101.com. The student login is arhs plus their ID number, and the password is password.</p> <p>TCA Test Prep: This is an online resource to aid in PSAT/SAT/ACT test preparation. Students should use their student ID number as the login and the password</p> <p>AP Resources from College Board: https://myap.collegeboard.com Block 4A: Use the code M3A67M Block 2B: Use the code VZXGZW</p>	<p>Other Web Resources:</p> <p>www.khanacademy.com</p> <p>patrickjmt.com</p> <p>www.flippedmath.com</p> <p>www.17-university.com</p> <p>tutorial.math.lamar.edu</p> <p>www.chaoticgolf.com (or www.leckiecharms.com)</p> <p>https://online.math.uh.edu/HoustonACT/videocalculus/</p>
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