

Northampton Area High School

Course Syllabus

AP Calculus AB
Course Code: M311AP
Board Approval Date: August 27, 2018

CONTACT INFORMATION

Mr. Mark Bendekovits, B.S., M.S., Mathematics Teacher, 9-12
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www.schoology.com

Time Available for Help

I am available to help students at the following times and locations:

- From approximately 6:45 A.M. until 7:15 A.M. in my room.
- During K-block
- At other times by appointment.

Course Description

Calculus is primarily concerned with developing the students' understanding of the concepts of calculus and providing experience with its methods and applications. The scope of the course includes functions, graphs, limits, derivatives, and integrals. The students should have a graphing calculator for the course, preferably a TI-89 or TI-84. (Topics covered also review material that is found on all the mathematics Keystone Exams.)

Keystone/Common Core Standards to be addressed

Many of the Common Core Standards are covered inherently through the topic of Calculus. Due to the vast amount of material a link showing the correlation of AP Calculus AB topics and Common Core Standards is provided through a College Board report at the following web address: <http://media.collegeboard.com/digitalServices/pdf/research/RR2011-8.pdf>. Please pay special attention to Appendix B

Objectives and Goals

The goal of this course is to provide enough instruction and experience in the topics of Calculus to allow students to be successful on either the AP Calculus AB exam or a first year college Calculus class.

Determination of Grades

Course grades will be determined by classwork assignments, homework assignments, class participation, quizzes, and tests. Scores will be adjusted based on the AP scoring guidelines.

Final Exam Policy

Only juniors or seniors with a final average of at least a 90% will be exempt from the Final Exam.

Summer Assignment

Since you enrolled in an AP course, you are required to complete the summer assignment and turn in all work on the first day of school.

Practice Exam

All members of the class will be required to participate in an AP practice exam in preparation for the actual AP exam. This generally occurs about 4-6 weeks before the actual exam, which is usually during the second week of May. Your score on the practice exam will be a considerable part of your 4th marking period grade.

Classroom Rules and Discipline

Rules of the classroom will be governed by the Student Handbook and District policies. In addition, the basic ideals of respect for all in the classroom, appropriate etiquette, and preparedness for class are expected. The consequences for not following these general procedures include, but are not limited to verbal reprimands, detentions, contact with parents/guardians, and/or referrals to a counselor or administrator.

Topics to be Covered and Timeline for the Course

The course follows the following text:

Larson, Ron, Robert P. Hostetler, and Bruce H. Edwards. *Calculus of a Single Variable*. 8th ed. Boston: Houghton Mifflin, 2006. Also, resources from the Master Math Mentor website will be used.

Timeline:

Days	Chapter #	Topic
1-9	0	Student Packet Review
10-39	1	Limits and Continuity
40-67	2	Differentiation: Algebraic and Trigonometric Functions
68-111	3	Applications of Differentiation
112-137	4	Integration
138-159	5	Applications of the Definite Integral
160-		Review and Final exam

Timing of Assignments

- Assessments (tests and quizzes) will occur every few days.
- AP style open-ended questions will be weekly.
- Classwork/Homework.

Everyone must sign off on Schoology. By signing, you agree to the guidelines stated above.