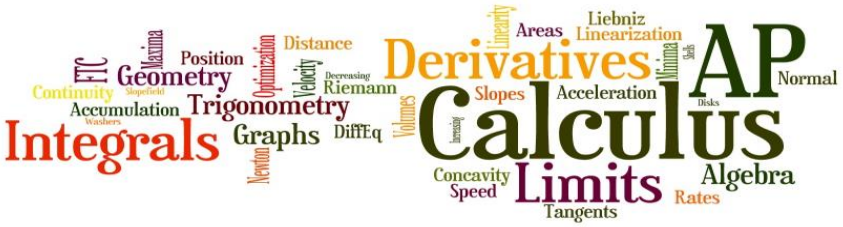
AP Calculus AB



Questions? Contact …
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- Prerequisite: Advanced Algebra OR Mathematical Analysis (*We suggest a B or better!*)
- May earn college credit with an AP exam score of 4 or 5
- After AP Calculus AB, students usually take AP Calculus BC the following year.

Main Themes in AP Calculus AB:

- Functions, graphs, and limits
- Derivatives and applications
- Integrals and applications

Assignments:
- Daily homework
- Non-calculator problems
- Problem sets

Expect a pre-course summer assignment (problem set)

Assessments:
- Weekly quizzes
- Unit tests twice a quarter
- Problem Sets

Assessments are **timed** & modeled after the AP exam – calculator and non-calculator; multiple choice and free-response

Workload: Expect…
- Four hours of STUDY a week outside of class time
- Daily homework
- AP level tests
- To come in for extra help about once a week
- To form a study group outside of class

AP Exam:
- Given in May
- 45 multiple choice
- 6 free response
- Non-calculator and calculator sections

Overview of AP Calculus AB from College Board:

The AP course covers topics in differential and integral calculus, 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.

Calculus BC is a full-year course in the calculus of functions of a single variable. It includes all topics taught in Calculus AB plus additional topics. Calculus BC is an extension of Calculus AB rather than an enhancement. Both courses are intended to be challenging and demanding; they require a similar depth of understanding of common topics. A Calculus AB subscore is reported based on performance on the portion of the Calculus BC exam devoted to Calculus AB topics.