



McLean High School Course Description and Expectations

Course: AP Calculus AB

Prerequisites: PreCalculus Honors with Trigonometry or Trig/Math Analysis; recommendation from previous math teacher

Short Course Description:

Topics covered include but are not limited to the derivative, the definite integral, Riemann Sums, the Fundamental Theorem of Calculus, short cuts to derivatives, Related Rates, Optimization, Limits, Mean Value Theorem, finding areas, volumes, applications in geometry, physics and economics, and Differential Equations including slope fields.

Summer Assignment: None

Work Load during the School Year: Intensive theoretical understanding of math, many applications to physics, chemistry, and biology. Homework can take anywhere from 1 hour per class to 3 hours per class. Daily quizzes will assess current material being studied. 2 to 3 tests will be given per quarter. Test and Quiz preparation may take up to 3 or 4 additional hours per week of study. Tests will not leave the classroom. Students may stay after school or attend lunch tutorials to work on test corrections. Many days after school and Saturday review sessions are necessary for some students.

Special Course Information: 4.5 hour Saturday Final Exam given in April.

Available Support: Almost every day, lunch time, some Saturdays

Please sign indicating that you have read and understand the nature of this AP course.

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student signature

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parent signature