



**SAINT
JOSEPH
PREP**

Ms. Paula Daly
Mathematics Department Chair
paula.daly@saintjosephprep.org
617-254-8383 x1614

AP Calculus AB
Grade 12

Advanced Placement Calculus AB closely follows the guidelines and topics of the most recent College Board Advanced Placement Course Description, which is the summary of concepts needed for preparation for the Advanced Placement Examination. This course, while maintaining strict, traditional mathematical content, will incorporate technology to study both differential and integral calculus, with concepts, results, and problems being expressed numerically, graphically, analytically, and verbally. Previous mathematics courses will serve as a foundation for calculus. In this course, students combine skills from algebra, geometry, trigonometry, and analytical geometry with appropriate technology to create models that describe real world phenomena including calculating limits and derivatives and integrals along with applications such as particle motion and geometric calculations of three-dimensional shapes. All students are required to take the AP Calculus AB exam in May upon completion of the course.