

Mathematics Department Advanced Placement Program

Student Application For:

AP Calculus BC - AP Calculus AB

The Advanced Placement Program in Mathematics offers students the opportunity to pursue college level study while still in high school. It is expected that students who take an Advanced Placement course in calculus will seek college credit, college placement, or both. Colleges and universities throughout the country have established individual policies with regard to granting credit and/or placement based upon student scores on the Advanced Placement examination in May. Please check with your prospective colleges to determine their policies.

The Advanced Placement Program in Mathematics includes two calculus courses and an examination for each course. The two courses and the corresponding examinations are designated as CALCULUS AB (equivalent to Calculus 1 and parts of Calculus 2 at the college level) and CALCULUS BC (equivalent to Calculus 1 and 2 at the college level). *As a result of this additional curriculum, Calculus BC will meet for a second period every other day; please consider this when applying; this could prove to be in conflict with other courses you are taking.*****

The AP Calculus courses are primarily concerned with developing students' understanding of concepts of calculus and providing experience with its methods and applications. The courses include a rigorous study of differential and integral calculus with emphasis on graphing calculator technology. Students are expected to be able to use graphing calculator technology to help solve problems, experiment, interpret results, and verify conclusions. The courses are intended for mathematics students who have completed four years of secondary mathematics designed for college-bound students in which they study algebra, geometry, trigonometry, analytic geometry, and elementary functions. These functions include those that are linear, polynomial, rational, exponential, logarithmic, trigonometric, and piecewise defined. Students must be familiar with the language of functions (domain and range, odd and even, periodic, symmetry, zeros, intercepts, etc.), properties of functions, the algebra of functions, and the graphs of functions.

Students in the Advanced Placement Program in Mathematics will be required to complete a mandatory summer assignment. They are also required to take the corresponding Advanced Placement Examination in May and pay the required examination fee (approximately \$90—to be paid prior to the exam). Following the Advanced Placement Examination all students will be required to complete an independent study research report/project on a mathematics related topic.

If you are admitted to the program, you are making a commitment to achieve excellence and contracting to complete all requirements of the course. Your progress in the course will continually be assessed and it is your responsibility to insure that your total performance meets the high standards of excellence expected of an Advanced Placement student. School grade weighting is applied for all Advanced Placement students quarterly by the guidance department in computing principal's roll, honor roll, and class rank. The grade weighting is recorded on the report card only on the final grade in June.

**ALL APPLICATIONS MUST BE RETURNED TO YOUR PRECALCULUS
TEACHER BY THURSDAY FEBRUARY 15, 2018**

Admission Criteria:

Calculus BC: 95 average in Precalculus or 90 average in Precalculus (RCC) and teacher recommendation.

Calculus AB: 90 average in Precalculus or 85 average in Precalculus (RCC) and teacher recommendation.

