Mathematics

AP Calculus AB – is equivalent to a first-year college calculus course. It is primarily concerned with developing the students' understanding of the concepts of calculus and providing experience with its methods and applications. It follows a multirepresentational approach to calculus, with concepts, results, and problems expressed graphically, numerically, analytically and verbally. This course is intended to be challenging and demanding. **Requirements:** Successful completion of Accelerated Math III or GPS Math IV with **teacher recommendation** or IB Math Studies with **teacher recommendation. Strongly Recommended:** A minimum score of a 55 on both the reading and math sections of the PSAT. Students who have completed the prerequisites for this course via an on-line provider have generally not been successful in the past. Open to students in11-12th grades.

AP Calculus BC – is an extension of Calculus AB. It is primarily concerned with developing the students' understanding of the concepts of calculus and providing experience with its methods and applications. It follows a multirepresentational approach to calculus, with concepts, results, and problems expressed graphically, numerically, analytically and verbally. This course is intended to be challenging and demanding. **Requirements:** Completion of AP Calculus AB. **Strongly Recommended:** A minimum score of a 60 on both the reading and math sections of the PSAT. Students who have completed the prerequisites for this course via an on-line provider have generally not been successful in the past. Open to students in11-12th grades.

AP Calculus AB/BC – is equivalent to the first two college calculus courses. It is primarily concerned with developing the students' understanding of the concepts of calculus and providing experience with its methods and applications. It follows a multi-representational approach to calculus, with concepts, results, and problems expressed graphically, numerically, analytically and verbally. This course is intended to be challenging and demanding and due to the extremely fast pace it is the most challenging of the AP mathematics courses. Students must also allot **two periods** of their schedule in order to take this course. **Requirements:** Successful completion of Accelerated Math III. **Strongly Recommended:** A minimum score of a 60 on both the reading and math sections of the PSAT and a score of 90 or above in Accelerated Math III. Students who have completed the prerequisites for this course via an on-line provider have generally not been successful in the past. Open to students in11-12th grades.

AP Statistics – is equivalent to a first-semester, introductory, non-calculus-based college level course in statistics. The course will introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students will be introduced to exploring data, sampling and experimentation, anticipating patterns and statistical inference. It is also possible to take AP Statistics simultaneously with another math course, such as Accelerated Pre-Calculus, Pre-Calculus, Calculus or AP Calculus. **Requirements:** Successful completion of Advanced Algebra, or Accelerated Analytic Geometry B/Advanced Algebra. **Strongly Recommended:** A minimum score of 55 on both the reading and math sections of the PSAT and a score of 95 or above in Advanced Algebra or 85 or above in Accelerated Analytic Geometry B/Advanced Algebra. AP Statistics is very heavy in reading, therefore high reading comprehension scores are considered necessary in order for the student to do well in the course. Open to students in 10-12th grades.

As a reminder, always heavily consider whether your current math teacher has recommended you for the course or not before signing a waiver into an AP mathematics class. They are aware of the amount of effort AP courses take and have been able to objectively follow your work ethic and mathematical/reading abilities for a year.