

## ***Course Syllabus: Pre-Calculus: MTH 391 : 2017-2018***

**Contact Information :** Mrs. Crotty

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**Office Hours:** Tuesday and Thursday from 7:00 – 7:30 a.m. (math office), 5<sup>th</sup> hour (room C223) or after school by appointment (math office)

**Course Description:** Welcome to Honors Pre-Calculus! This is an honors-level course for students simultaneously enrolled in Honors Physics to prepare for AP Calculus BC. Students will explore Pre-calculus concepts in-depth and relate them (when possible) to the topics being covered in physics class.

**Assessments:** Students will complete both formative and summative assessments throughout the year. These may include quizzes, tests, projects, labs, homework assignments, writing reflections, or any other means of measuring progress.

**Content:** We will be covering the following units to deepen your understanding: Graphing Equations and Functions ♦ Polynomial & Rational Functions ♦ Exponential and Logarithmic Functions ♦ Trigonometric Functions ♦ Analytic Trigonometry ♦ Applications of Trigonometric Functions ♦ Polar Equations ♦ Vectors and Parametrics ♦ Systems of Equations & Inequalities ♦ Sequences and the Binomial Theorem ♦ Introduction to Calculus including limits and derivatives.

**Instructional Strategies:** A variety of strategies will be used, including (but not limited to) group work, individual work, teacher-led activities, collaborative discussion, flipped lessons and problem solving activities.

**Resources:**

Text: *PreCalculus: Graphical, Numerical, Algebraic Ninth Edition* : Demana

Online: Canvas , [www.pearsonmylabandmastering.com](http://www.pearsonmylabandmastering.com)

**Academic/Behavior Expectations:**

▪ **What if I miss class?**

If you miss class for any reason, you are responsible to get the notes and the assignment for that day. If you miss a test or quiz, you will be expected to make it up the next day. If you are gone for multiple days, see me to schedule a make-up time.

▪ **What if I am struggling?**

If you start to fall behind in class, the best thing to do is get help IMMEDIATELY. The longer you wait, the more you fall behind and the worse it gets. You can get help from me before school, after school, or during 5<sup>th</sup> hour A or D study.

▪ **General rules:**

- Arrive on time and prepared for class.
- Treat people how you would like to be treated. Disrespect or harassment of any kind will not be tolerated in this classroom.
- Attendance: Your success in math requires you to be in class every day and to be an active participant in class. I will follow the Hempstead Policy regarding tardies and absences.

