Pre-Calculus Honors Syllabus

[ceresap@mdusd.org](mailto:ceresap@mdusd.org) • **Mr. Ceresa** • follow me @mrCeresa

per A,1,2,5 in room 13 • per 3 in room 20

**The Course**: Pre-Calculus Honors is one of the most challenging and most rewarding math courses at Northgate. You will take many of the topics that you learned in Algebra II with Trigonometry and apply them with greater depth of understanding. We will begin with a major focus on functions, their graphs and applications. Included will be linear, quadratic, polynomial, rational, exponential and logarithmic functions. The next major unit will be trigonometry, both graphic and analytic. In discrete mathematics we will explore vectors, analytic geometry (conic sections), systems of equations and inequalities, sequences, series and probability. The emphasis on all will be on application in the real world. We will end the year with an introduction of Calculus through limits.

**Grading**: Each quarter is divided into Tests/Quizzes and Classwork/Homework.

**90%** of your grade is through tests and quizzes.

**10%** of your grade is through Classwork which becomes homework if not completed.

Each semester will require presentations to help prepare for the finals. The presentation counts as a 50 point test and will be included in the test/quiz category.

The semester grades which go on your transcripts will be based on a cumulative exam of the current semester.

Semester 1: **80%** Quarter 1 and 2 and **20%** Semester 1 final.

Semester 2: 80% Quarter 3 and 4 and 20% Semester 2 final.

**Materials**: Pre-Calculus Textbook **every day**, notebook or binder with lined paper, pencils with erasers, colored pencils(optional but helpful), eraser, ruler, black/blue pen, highlighter, TI-83 or above (or ther brand equivalent) graphing calculator.

**Extra Help**: I try to make myself available for extra help as much as possible. This is a very challenging course and I expect many questions. So ask them. Don’t wait until the day of a test to find out you are not clear on a topic. There will be much time devoted to doing work in class, so ask me then or before or after class. If you arrange with me ahead of time, I will stay after school to meet with you, but I teach an A period so I will usually leave school during 6th period.