

## Syllabus\* Pre-Calculus GT/Honors

### Course Description

Pre-Calculus GT/H is a preparatory course for Calculus AP for students who have successfully completed Algebra II GT/H. Pre-Calculus includes development of higher level math skills. Students in the GT/H program spend a greater part of their time in activities that involve analysis of concepts, problem solving, synthesis of ideas, and evaluation of concepts.

### Topical Outline

1. Functions and their graphs (including linear, quadratic, polynomial, trigonometric, inverse, exponential, logarithmic, piece-wise)
2. Application of trigonometric functions
3. Trigonometric identities and equations
4. Inequalities
5. Polar Coordinates
6. Complex Numbers
7. Application of conic sections
8. Series and Sequences
9. Parametric Equations
10. Vectors
11. Limits
12. Derivatives

### Textbook

Pearson: Pre-Calculus – Graphical, Numerical, Algebraic (Demana, Waits, Foley, Kennedy, Bock)

### Supplies

Graphing Calculator (TI-nspire CX)

Pencils and Pens

Graph paper and Straight Edge

Binder, Spiral Notebook or Notebook paper for own purposes

Electronic Devices including cell phones should not be used in the classroom without prior teacher approval.

### Evaluation

Each semester grade is determined by the average of the two term grades and the final exam in the semester. At least three major grades and eleven daily grades will determine each term grade. Daily grades may include homework, quizzes, class work, or small group work. Major grades may include tests and projects. The major grade average and the daily grade average will each count as 50% of the term grade. Retesting is available. Please see the Pre-Calculus GT/Honors retest policy for details.

### Semester Averages

Refer to the student handbook for the district semester average.

Tutorial Schedule – tutorials are offered daily with the exception of Wednesday due to Math department AM and PM hall duty.

Mrs. Fojtik: is available before school from 7:00-7:20 AM on Tuesday, Thursday, and Friday.

Mr. Perrin: is available before school from 6:50-7:20 AM on Wednesday, and Friday.

Mr. English is available before school from 7:00-7:20 AM on Monday and Thursday.

Mr. English is available after school from 2:35-3:05 PM on Monday.

\*Subject to change.