Trigonometry Syllabus

Course Description: This is a 3-week (5 high school credit) course in which students are taught the following topics:

- Trigonometric Functions
- Polar Coordinates; Vectors
- Acute angles & Right Triangles
- Graphing various functions
- Radian Measure & Circular Functions

- Polynomial and Rational Functions
- Graphs of Trigonometric Functions
- Analytic Trigonometry
- Application of Trigonometric Functions

Textbook: *Trigonometry*, Eight Edition, Lial, Hornsby, and Schneider.

Course Outcomes:
Students will be able to:
A. understand the basic trigonometric functions and how they may be applied in solving application problems.
B. use the graphing calculator to solve typical & non-typical trigonometry problems.
C. strengthen use of algebra skills and knowledge in preparation of pre-calculus concepts.
D. study analytic trigonometry: polar equations, vectors, etc.

Daily Required Materials:
1. Textbook
2. #2 Pencils, pens, erasers, lined paper, graph paper, ruler
3. TI 83 or 83 Plus Graphing Calculator or TI 84

Specific Policies:
Students are expected to document notes and ask questions in class when uncertain in understanding the material. It is the responsibility of the student to seek assistance either inside or outside of the classroom. Students are also encouraged to share ideas and participate in discussions that will contribute to increasing the overall academic environment of the class.