Course Title: Pre-calculus
Credit / Hours: 1 credit

Board Approval Date: June, 2010

Course Description:

Pre-calculus is an advanced form of secondary algebra and trigonometry with an emphasis on graphing. Topics covered will include equations and inequalities, polynomial, rational, exponential, and logarithmic function. The conics and trigonometry as well as sequences, series, and probability will be discussed. This course is aligned with the PA Standards in Mathematics.

Learning Activities / Modes of Assessment:

Large group instruction
Tests and Quizzes
Small group work
Teacher observation
Computer activities
Projects
Graphing calculator activities
Homework

Instructional Resources:

Algebra and Trigonometry – 5th edition (Larson, Hostetler) Houghton Mifflin Company, 2001

Appropriate Internet Resources

Course Pacing Guide

Course: Pre-calculus

Course Unit (Topic)	Length of Instruction
1. Pre-requisites	11 days
2. Equations and Inequalities	12 days
3. Functions and Their Graphs	10 days
4. Polynomial Functions	7 days
5. Rational Functions and Conics	7 days
6. Exponential and Logarithmic Functions	7 days
7. Trigonometry	11 days
8. Analytic Trigonometry	9 days
9. Additional Topics in Trigonometry	5 days
10. Sequences, Series, and Probability	7 days