

Syllabus MAT2 Spring 07 BHSEC Ms. Coffey

- Unit 1 Fractional Expressions
 - Factoring polynomials
 - Algorithm for adding and subtracting fractions
 - Multiplication and division of fractions
 - LCD
 - Complex Fractions
 - Rationalizing numerators and denominators

- Unit 2 Higher Order Polynomials
 - Factoring polynomials
 - Division of polynomials
 - Synthetic Division
 - Remainder Theorem
 - Factor Theorem
 - Rational Root Theorem
 - Descartes' Rule of Signs

- Unit 3 Graphing Rational Functions
 - Finding all zeros
 - End behavior - Asymptotes
 - Vertical, Horizontal and Slant
 - Multiplicity of zeros
 - Sketching

- Unit 4 Exponential and Logarithmic Functions
 - Rules of exponentiation
 - Power functions
 - Graphing Power functions
 - Transforming power functions
 - Natural Exponential Function
 - Exponential growth
 - Logarithmic function
 - Graphing log functions
 - The natural Log
 - Laws of Logarithms
 - Exponential and Logarithmic Equations

- Unit 5 Trigonometry
 - Radian measure
 - The Unit Circle
 - The Wrapping Function
 - Reference Angle
 - Terminal Point
 - The trigonometric relationships and functions

Domain and Range
Even and Odd functions
Fundamental Identities
Graphing trig functions
Amplitude and Period
Transformation of trig functions
Inverse trig functions
Trigonometric equations
Triangular relationships
Law of Sines
Law of Cosines

Unit 6 Mathematical Modeling=