**Precalculus Curriculum Sequence**

Chapter 0 – Preparing for Precalculus

Lesson 1.3 Quadratic Functions and Equations

Lesson 1.4 nth Roots and Real Exponents

Chapter 1 – Functions from a Calculus Perspective

Section 1.1 Functions & Piecewise Functions

Section 1.2 Analyzing Graphs of Functions and Relations

Section 1.3 Continuity, End Behavior, and Limits

Section 1.4 Extrema and Average Rate of Change

Section 1.5 Parent Functions and Transformations

Section 1.6 Function Operations and Composition of Functions

Section 1.7 Inverse Relations and Functions

Chapter 2 – Power, Polynomial, and Rational Functions

Section 2.1 Power and Radical Functions

Section 2.2 Polynomial Functions

Section 2.4 Zeros of Polynomial Functions

Section 2.5 Rational Functions

Chapter 3 – Exponential and Logarithmic Functions

Section 3.1 Exponential Functions

Section 3.2 Logarithmic Functions

Section 3.3 Properties of Logarithms

Section 3.4 Exponential and Logarithmic Equations

Chapter 4 – Trigonometric Functions

Section 4.1 Right Triangle Trigonometry

Section 4.2 Degrees and Radians

Section 4.3 Trigonometric Functions of the Unit Circle

Section 4.4 Graphing Sine and Cosine Functions

Section 4.5 Graphing Other Trigonometric Functions

Section 4.6 Inverse Trigonometric Functions

Section 4.7 The Law of Sines and the Law of Cosines\*

Chapter 5 – Trigonometric Identities and Equations

Section 5.1 Trigonometric Identities

Section 5.2 Verifying Trigonometric Identities

Section 5.3 Solving Trigonometric Equations

Section 5.4 Sum and Difference Identities\*

Chapter 7 – Conic Sections and Parametric Equations

Section 7.1 Parabolas\*

Section 7.2 Circles

Section 7.2 Ellipses\*

Section 7.3 Hyperbolas\*

Section 7.5 Parametric Equations

Chapter 9 – Polar Coordinates and Complex Numbers

Section 9.1 Polar Coordinates

Section 9.2 Graphs of Polar Coordinates

Section 9.3 Polar and Rectangular Forms of Equations

Chapter 8 – Vectors

Section 8.1 Introduction to Vectors

Section 8.2 Vectors in the Coordinate Plane