Scope and Sequence

Semester 1

Precalculus Prerequisites

Numbers, Notation, & Exponents Agility, Simplifying, & Evaluating Coordinate Geometry, Equations, & Lines Complex Numbers, Modeling, & Calculators

Fun and Functions

Algebraic Domains of Functions Limits & Continuity Other Properties of Functions Parent Functions and Transformations Building Functions from other Functions

Polynomial and Rational Functions

Polynomial Functions and Inequalities Binomial Theorem and Pascal's Triangle Real Zeros of Polynomial Functions The Intermediate Value Theorem Complex Zeros of Polynomial Functions Rational Functions & Inequalities Radical Functions and Power Functions

Exponential and Log Functions

Exponential and Logistic Functions Exponential and Logistic Modeling Logarithmic Functions Properties of Logs Exponential and Log Equations

Semester 2

Trigonometric Functions

Angles and Angle Measure Applications of Angles Circular Trig Functions Using the Unit Circle Sinusoids Applications of Sinusoids The Other Trig Functions Inverse Trig Functions Problem Solving with Trigonometry

Analytic Trigonometry

Fundamental Identities Trig Proofs!!! Composite Identities Other Identities The Law of Sines The Law of Cosines & Area Vectors

Polar & Parametric

Polar Coordinates Graphs of Polar Equations Plane Curves and Parametric Equations

Conic Sections

Circles & Ellipses & Applications Hyperbolas & Parabolas & Applications

Introduction to Calculus

The Derivative The Integral Sequences & Series (finite & infinite)