MATH 15400 ALGEBRA & TRIGONOMETRY II

List of Course Topics


Chapter 11: Topics From Analytic Geometry
   11.1 Parabolas
   11.2 Ellipses (omit eccentricity)
   11.3 Hyperbolas

Chapter 9: Systems of Equations and Inequalities
   9.1 Systems of Equations
   9.2 Systems of Linear Equations in Two Variables

Chapter 6: The Trigonometric Functions
   6.1 Angles
   6.2 Trigonometric Functions of Angles
   6.3 Trigonometric Functions of Real Numbers
   6.4 Values of the Trigonometric Functions
   6.5 Trigonometric Graphs
   6.7 Applied Problems (omit harmonic motion problems)

Chapter 7: Analytic Trigonometry
   7.1 Verifying Trigonometric Identities
   7.2 Trigonometric Equations
   7.3 The Addition and Subtraction Formulas
   7.4 Multiple-Angle Formulas
   7.6 The Inverse Trigonometric Functions (omit graphs of \( y = \cot^{-1} x, \ y = \sec^{-1} x, \ y = \csc^{-1} x \))

Chapter 8: Applications of Trigonometry
   8.1 The Law of Sines
   8.2 The Law of Cosines