MATH 15400 TRIGONOMETRY - List of Course Topics

**IU e-TEXT:** Swokowski & Cole, *Algebra & Trigonometry with Analytic Geometry*, Classic 12th Edition

# 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

# Chapter 8: Applications of Trigonometry

8.1 The Law of Sines

8.2 The Law of Cosines