

Course Syllabus

Week	Date	Topic
1	Mar. 29 - Apr. 02	<ol style="list-style-type: none"> Factoring and Simplifying Rational Expressions Solving Equations: linear, quadratic, absolute value, and other types. Solving inequalities: linear, quadratic, rational, and other types.
2	Apr. 05 - Apr. 09	<ol style="list-style-type: none"> Functions: graphs, combining functions, and transformation of functions Polynomial functions: polynomial division, graphs, and complex zeros Rational functions
3	Apr. 12 - Apr. 16	2.8 One-to-One Functions and Their Inverses 4.1, 4.2 Exponential Functions and The Natural Exponential 4.3 Logarithmic Functions 4.4 Laws of Logarithms 4.5 Exponential and Logarithmic Equations
4	Apr. 19 - Apr. 23	5.1 Angle Measure 5.2 Trigonometry of Right Triangles * 5.3 Trigonometric Functions of Angles 6.2 Trigonometric Functions of Real Numbers
5	Apr. 26 - Apr. 30	6.3 Trigonometric Graphs 6.4 More Trigonometric Graphs 5.4, 6.5 Inverse Trigonometric Functions and their Graphs 7.1 Trigonometric Identities
Mid-Term Exam: Wednesday, 29th April 2026 [Math001 + 2.8 – 6.5]		
6	May 03 - May 07	7.2 Addition and Subtraction Formulas 7.3 Double-Angle, Half-Angle 7.4 Basic Trigonometric Equations 7.5 More Trigonometric Equations 9.1, 9.2 Vectors in Two Dimensions & The Dot Product
7	May 10 - May 14	10.1 Systems of Linear Equations in Two Variables 10.4 Systems of Nonlinear Equations 11.1 Matrices and Systems of Linear Equations 11.2 The Algebra of Matrices 11.4 Determinants + Properties of Determinants
8	May 17 - May 21	11.3 Inverses of Matrices and Matrix Equations 12.1 Parabolas (with shifted Parabolas) 12.2 Ellipses (with shifted Ellipses) 12.3 Hyperbolas (with shifted Hyperbolas)
Final Exam: Wednesday, 20th May 2026 [2.8 – 12.3]		