**Tentative Instructional Outline - MATH 1314**

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| **Date** | **Section** | **Material** |
| Week 1 | 1.11.21.3 | Linear Equations and Rational EquationsApplications and Modeling with Linear EquationsComplex Numbers |
| Week 2 | 1.41.51.6 | Quadratic EquationsApplications of Quadratic EquationsMore Equations and Applications |
| Week 3 | 1.71.8 | Linear Inequalities and Compound InequalitiesAbsolute Value Equations and Inequalities**Test 1 (Sections 1.1 – 1.8)** |
| Week 4 | 2.12.32.4 | The Rectangular Coordinate System and Graphing UtilitiesFunctions and RelationsLinear Equations in Two Variables and Linear Functions |
| Week 5 | 2.52.62.7 | Applications of Linear Equations and ModelingAnalyzing Graphs of Functions and Piecewise-Defined FunctionsTransformations of Graphs |
| Week 6 | 2.83.1 | Algebra of Functions and Function CompositionQuadratic Functions and Applications |
| Week 7 | 3.23.53.6 | Introduction to Polynomial FunctionsRational FunctionsPolynomial and Rational Inequalities |
| Week 8 | **Test 2 (Sections 2.1, 2.3-2.8, 3.1-3.2, 3.5-3.6)** |
| Week 9 | 4.14.24.3 | Inverse FunctionsExponential FunctionsLogarithmic Functions |
| Week 10 | 4.44.54.6 | Properties of LogarithmsExponential and Logarithmic EquationsModeling with Exponential and Logarithmic Equations |
| Week 11 | **Test 3 (Sections 4.1-4.6)** |
| Week 12 | 5.15.25.4 | Systems of Linear Equations in Two Variables and ApplicationsSystems of Linear Equations in Three Variables and ApplicationsSystems of Nonlinear Equations in Two Variables |
| Week 13 | 5.56.16.2 | Inequalities and Systems of Inequalities in Two VariablesSolving Systems of Linear Equations Using MatricesInconsistent Systems and Dependent Equations |
| Week 14 | **Test 4 (Sections 5.1-5.2, 5.4-5.5, 6.1-6.2)** |
| Week 15 | *Review for Final* |