Math 0031 Schedule and Practice Problems

Based on a Monday/Wednesday/Friday schedule

**August 27: Introduction to Graphing**
1.1 (p.14) Numbers 7, 11-21 odd, 27, 33, 37, 43-51 odd, 57-65 odd, 75-95 odd

**August 30: Functions and Graphs**
1.2 (p.27) Numbers 5, 7, 14, 19-27 odd, 31-35 odd, 45-51 odd, 59-63 odd, 67-69, 79-87 odd

**September 1: Linear Functions, Slopes and Applications**
1.3 (p.44) Numbers 1-7 odd, 8, 9, 23-35 odd, 41-47 odd, 55-65 odd, 71-77 odd

**September 3: Equations of Lines and Modeling**
1.4 (p.59) Numbers 1-43 odd, 47, 48, 52, 53, 56, 63, 65

**September 8: Linear Equations, Functions, Zeros and Applications**
1.5 (p.74) Numbers 25-85 odd

**September 10: Solving Linear Inequalities**
1.6 (p.83) Numbers 9-21 odd, 31-41 odd, 45-51 odd

Chapter 1 Review and Chapter 1 Test pp. 91-96

**September 13: Increasing Decreasing and Piecewise Functions**
2.1 (p.106) Numbers 13-33 odd, 39-47 odd, 61, 63

**September 15: The Algebra of Functions**
2.2 (p.116) Numbers 1-5 odd, 21-31 odd, 47, 53-69 odd

**September 17: The Composition of Functions**
2.3 (p.124) Numbers 5-15 odd, 25-35 odd, 41, 43, 49, 51
Mid-Chapter Mixed Review p.125

**September 20: Symmetry and Transformations**
2.4 (p.132) Numbers 15-31 odd, 39-47 odd
2.5 (p.144) Numbers 1-21 odd, 37-43 odd, 49-52

**September 22: Variation and Application**
2.6 (p.152) Numbers 5-11 odd, 15-38 odd
Chapter 2 Review and Chapter Test pp. 162-166

**September 24: The Complex Numbers**
3.1 (p.172) Numbers 1-87 odd

**September 27: Quadratic Equations, Functions, Zeros and Models**
3.2 (p.185) Numbers 1-91 odd, 95-107 odd

**September 29: Analyzing Graphs of Polynomial Functions**
3.3 (p.199) Numbers 3-15 odd, 17-24, 31-39 odd, 41-53 odd
Mid-Chapter Mixed Review p.202

**October 1: Solving Rational and Radical Equations**
3.4 (p.209) Numbers 1-65 odd

**October 4: Solving Equations and Inequalities with Absolute Value**
3.5 (p.213) Numbers 1-63 odd
Chapter 3 Review and Chapter Test pp. 220-224

**October 6: Review**

**October 8: Exam I**

**October 11: Polynomial Functions and Models**
4.1 (p.235) Numbers 19-26, 27-41 odd, 43-46, 47-55 odd

**October 13: Graphing Polynomials**
4.2 (p.247) Numbers 13-45 odd

**October 18: Polynomial Division: The Remainder and Factor Theorems**
4.3 (p.254) Numbers 5-22, 39-48
Mid-Chapter Mixed Review p.256

**October 20: Theorems about Zeros of Polynomial Functions**
4.4 (p.264) Numbers 1-15 odd, 25-69 odd
October 22: Rational Functions
4.5 (p.281) Numbers 7-12, 13-31 odd

October 25: Rational Functions
4.5 (p.281) Numbers 35-65 odd, 83

October 27: Polynomial and Rational Inequalities
4.6 (p.292) Numbers 1-63 odd, 79
Chapter 4 Review and Chapter Test p.305-310

October 29: Inverse Functions
5.1 (p.319) Numbers 25-31 odd, 47-57 odd, 61-65, 79-85 odd, 91, 92

November 1: Exponential Functions and Graphs
5.2 (p.330) Numbers 5-10, 15, 17, 27-45 odd, 51-75 odd

November 3: Logarithmic Functions and Graphs
5.3 (p.345) Numbers 1-91 odd, 95, 97, 101
Mid-Chapter Mixed Review p.347

November 5: Properties of Logarithms
5.4 (p.355) Numbers 1-75 odd

November 8: Solving Exponential Equations
5.5 (p.365) Numbers 1-61 odd

November 10: Applications and Models: Growth and Decay
5.6 (p.376) Numbers 1-21 odd
Chapter 4 Review and Chapter Test p.388-391

November 12: REVIEW

November 15: EXAM II

November 17: System of Equations in Two Variables
6.1 (p.405) Numbers 1-6, 31-69 odd

November 19: System of Equations in Three Variables
6.2 (p.414) Numbers 1-15 odd, 25-33 odd

November 29: Matrices and Row Operations
6.3 (p.423) Numbers 7-13 odd, 23-41 odd

December 1: Matrix Operations
6.4 (p.432) Numbers 5, 9, 15-23 odd, 27, 31, 39-45 odd
Mid-Chapter Mixed Review p.435

December 3: Inverse Matrix
6.5 (p.440) Numbers 5, 11-17 odd, 25-37 odd, 41

December 6: Determinants and Cramer's Rule
6.6 (p.448) Numbers 1-7 odd, 23, 27-37 odd

December 8: Systems of Inequalities and Linear Programming
6.7 (p.457) Numbers 1-7, 11, 17, 19, 21, 49-59 odd, 65, 67, 71, 73

December 10: Review
TBA:
Final Exam (all day sections)