

Monday	Tues	Wednesday	Thurs	Fri	Sat	Sunday
1/9 Introductions	1/10	1/11 Order Operations, Translating, Simplifying 1.3-1.7, 2.1	1/12	1/13	1/14	1/15 All Tests due by 10 pm
1/16 Holiday	1/17	1/18 Properties, Real Number System 1.2, 1.8	1/19	1/20	1/21	1/22 Ch. 1 Test due
1/23 Linear Eqns, Word Problems 2.2-2.6	1/24	1/25 Inequalities, Word Problems 2.7, 2.8	1/26	1/27	1/28	1/29 Ch. 2 Test due
1/30 Slope, Graphing Lines 3.2-3.4	1/31	2/1 Equations of Lines, Functions 3.5, 3.6, 8.1	2/2	2/3	2/4	2/5 Ch. 3 & 8.1 Test due
2/6 Review, Systems 4.1-4.5	2/7 SSD	2/8 840 MIDTERM	2/9	2/10	2/11	2/12
2/13 Systems, Matrices 4.4, 4.5, App. E	2/14	2/15 Laws of Exponents, Polynomials 5.1-5.5	2/16	2/17	2/18	2/19 Ch. 4 & App E Test due
2/20 Holiday	2/21	2/22 Polynomials 5.6, 5.7	2/23	2/24	2/25	2/26 Ch. 5 Test due
2/27 Factoring 6.1-6.5	2/28	2/29 Factoring 6.6, 6.7	3/1	3/2	3/3	3/4 Ch. 6 Test due
3/5 SPRING	3/6	3/7 BREAK	3/8	3/9	3/10	3/11 WEEK
3/11 Review, Rational Expressions 7.1 – 7.4	3/13	3/14 840 FINAL	3/15	3/16	3/17	3/18
3/19 Solving Rational Equations 7.5, 7.7	3/20	3/21 Functions, Transformations 8.2, 8.3	3/22	3/23	3/24	3/25 Ch. 7 Test due
3/26 Variation, Compound Inequal. 8.4, 9.1	3/27	3/28 Absolute Value Eqns and Inequalities 9.2, 9.3	3/29	3/30	3/31	4/1
4/2 Graphing Systems, Radicals 9.4, 10.1	4/3	4/4 Radicals 10.2-10.5	4/5	4/6	4/7	4/8 Ch. 8 & 9 Test due
4/9 Radicals, Quadratic Functions 10.6, 10.7, 11.1-11.3	4/10	4/11 Graph Quadratics, Nonlinear Inequalities 11.4-11.6	4/12	4/13	4/14	4/15 Ch. 10 Test due
4/16 Circles, Inverses, Composition 13.1, 12.1, 12.2	4/17	4/18 940 MIDTERM	4/19	4/20	4/21	4/22
4/23 Evaluating, Graphing Logs/Exps 12.3-12.6	4/24	4/25 Solving Exp/Log Equations, Applications 12.7	4/26	4/27	4/28	4/29 Ch. 11 Test due
4/30 Catch-up Day	5/1	5/2 Review for Final	5/3	5/4	5/5	5/6 Ch. 12 & 13.1 Test due
5/7	5/8	5/9 FINAL EXAM	5/10	5/11	5/12	5/13

Lecture Topics

Print off these notes and bring to class. Video Lectures are available for all topics.

Math 840 Topics:

Chapter 1:

- Fractions (not covered in class)
- Adding and Subtracting Real Numbers (not covered in class)
- Multiplying and Dividing Real Numbers (not covered in class)
- Order of Operations
- Properties of Real Numbers
- The Real Number System
- Translating Words into Expressions and Equations

Chapter 2:

- Simplifying Expressions
- Solving Linear Equations
- Solving Formulas for a Specified Variable
- Solving Word Problems Using Linear Equations – Part I
- Solving Word Problems Using Linear Equations – Part II
- Solving Linear Inequalities

Chapter 3:

- Slope
- Graphing Lines
- Writing Equations of Lines
- Functions
- Linear Functions

Chapter 4:

- Solving Systems of Equations
- Applications of Linear Systems of Equations
- Using Matrices to Solve Systems of Equations

Chapter 5:

- Laws of Exponents and Scientific Notation
- Polynomials – Add, Subtract, Multiply, Divide
- Synthetic Division and Remainder Theorem

Chapter 6:

- Factoring
- Solving Equations by Factoring

Math 940 Topics:

Chapter 7:

- Rational Expression – Domain, Simplify, Multiply, Divide
- Rational Expressions – Add, Subtract, Complex Fractions
- Difference Quotients
- Solving Equations and Word Problems Containing Rational Expressions

Chapter 8:

- Variation
- Piecewise Defined Functions
- Transformations of Functions and Graphing

Chapter 9:

- Compound Inequalities
- Absolute Value Equations
- Absolute Value Inequalities
- Graphing Linear Inequalities and Systems of Inequalities

Chapter 10:

- Simplifying, Multiplying, and Dividing Radicals
- Rational Exponents
- Adding and Subtracting Radicals
- Rationalizing Denominators and More Simplifying Radicals
- Solving Radical Equations
- Complex Numbers

Chapter 11:

- Solving Quadratic Equations
- Quadratic Functions and Graphs
- Non-Linear Inequalities
- Solving Non-Linear Equations

Chapter 12 and 13.1:

- Composition of Functions
- Inverse Functions
- Evaluating Logs and Properties of Logs
- Solving Exponential and Logarithmic Functions
- Applications of Exponential and Logarithmic Functions
- Graphing Exponential and Logarithmic Functions
- Circles