

Math 880 Schedule

MW 12-1:50

Spring 2016

1/11 Introductions	1/12	1/13 Order Operations, Translating, Simplifying 1.3-1.7, 2.1	1/14	1/15	1/16	1/17 All Tests due by 10 pm
1/18 Holiday	1/19	1/20 Properties, Real Number System 1.2, 1.8	1/21	1/22	1/23	1/24 Ch. 1 Test due
1/25 Linear Equations, Word Problems 2.2-2.6	1/26	1/27 Inequalities, Word Problems 2.7, 2.8	1/28	1/29	1/30	1/31 Ch. 2 Test due
2/1 Slope, Graphing Lines 3.2-3.4	2/2	2/3 Equations of Lines, Functions 3.5, 3.6, 8.1	2/4	2/5	2/6	2/7 Ch. 3 & 8.1 Test due
2/8 Review, Systems 4.1-4.3, 4.5	2/9 SSD	2/10 840 MIDTERM	2/11	2/12	2/13	2/14
2/15 Holiday	2/16	2/17 Systems 4.5	2/18	2/19	2/20	2/21 Ch. 4 Test due
2/22 Laws of Exponents, Polynomials 5.1-5.5	2/23	2/24 Polynomials 5.6, 5.7	2/25	2/26	2/27	2/28 Ch. 5 Test due
2/29 Factoring 6.1-6.5	3/1	3/2 Solving by Fact, QF 6.6, 6.7, 11.2	3/3	3/4	3/5	3/6 Ch. 6 Test due
3/7 SPRING	3/8	3/9 BREAK	3/10	3/11	3/12	3/13 WEEK
3/14 Review, Rational Expressions 7.1 – 7.4	3/15	3/16 840 FINAL	3/17	3/18	3/19	3/20
3/21 Solving Rational Equations 7.5, 7.7	3/22	3/23 Functions, Transformations 8.2, 8.3	3/24	3/25	3/26	3/27 Ch. 7 Test due
3/28 Variation 8.4	3/29	3/30 Radicals 10.1	3/31	4/1	4/2	4/3 Ch. 8 Test due
4/4 Radicals 10.2-10.5	4/5	4/6 Radicals, 10.6, 10.7	4/7	4/8	4/9	4/10 Ch. 10 Test due
4/11 Quadratic Functions 11.1-11.3	4/12	4/13 Graph Quadratics, Nonlinear Inequalities 11.4-11.6	4/14	4/15	4/16	4/17
4/18 Circles, Inverses, Composition 13.1, 12.1, 12.2	4/19	4/20 940 MIDTERM	4/21	4/22	4/23	4/24
4/25 Evaluating, Graphing Logs/Exponents 12.3-12.6	4/26	4/27 Solving Exponents Log Equations, Applications 12.7	4/28	4/29	4/30	5/1 Ch. 11 Test due
5/2 Catch-up Day	5/3	5/4 Review for Final	5/5	5/6	5/7	5/8 Ch. 12 & 13.1 Test due
5/9	5/10 Final 2-5	5/11	5/12	5/13	5/14	5/15

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 (2x2)

Chapter 5:

- Laws of Exponents and Scientific Notation
- Polynomials – Add, Subtract, Multiply

Chapter 6:

- Factoring
- Solving Equations by Factoring and the Quadratic Formula

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 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