

## MA 15300 Fall 2024 Schedule

Monday	Tuesday	Wednesday	Thursday	Friday
8/19 Introduction	8/20	8/21 Exponents and the Product, Quotient, and Power Rules (Lesson 1)	8/22	8/22 Product to a Power and Quotient to a Power Rules for Exponents, Exponent of Zero and Negative Exponents (Lesson 2)
8/26 Radical Notation, Fractional Exponents (Lesson 3)	8/27	8/28 Simplifying Radicals, Rationalizing Denominators (Lesson 4)	8/29	8/30 Polynomials (Lesson 5)
9/2 <b><u>LABOR DAY</u></b> <b><u>NO CLASSES</u></b>	9/3	9/4 IN-CLASS REVIEW FOR EXAM #1	9/5 <b><u>EXAM</u></b>  <b><u>#1</u></b>	9/6 Factoring and GCF, Factoring by Grouping and ac- method (Lesson 6)
9/9 Factoring using Formulas, Steps for Factoring, Simplifying Rational Expressions Part 1 (Lesson 7)	9/10	9/11 Simplifying Rational Expressions Part 2, Multiplying Rational Expressions, Dividing Rational Expressions (Lesson 8)	9/12	9/13 Adding and Subtracting Rational Expressions, Complex Fractions (Lesson 9)
9/16 Linear Equations, Linear Formulas, Applications of Linear Equations (Lesson 10)	9/17	9/18 IN-CLASS REVIEW FOR EXAM #2	9/19 <b><u>EXAM</u></b>  <b><u>#2</u></b>	9/20 Rational Equations, Rational Formulas, Applications of Rational Equations (Lesson 11)

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9/23 Quadratic Equations and the Zero Factor Theorem, Factoring, Extracting Roots, Formulas (Lesson 12)	9/24	9/25 Solving Quadratic Equations by Completing the Square, Applications (Lesson 13)	9/26	9/27 Solving Quadratic Equations using the Quadratic Formula and Rational Quadratic Equations, Applications (Lesson 14)
9/30 Polynomial Equations, Radical Equations, Equations with Fractional Exponents (Lesson 15)	10/1	10/2 IN-CLASS REVIEW FOR EXAM #3	10/3 <b><u>EXAM</u></b> <b><u>#3</u></b>	10/4 Rectangular Coordinate System, Finding Slope Algebraically, Finding Slope Graphically, Equations of Lines Algebraically, Equations of Lines Graphically (Lesson 16)
10/7 <b><u>FALL BREAK</u></b> <b><u>NO CLASSES</u></b>	10/8 <b><u>FALL</u></b> <b><u>BREAK</u></b> <b><u>NO</u></b> <b><u>CLASSES</u></b>	10/9 Lines (all remaining topics) (Lesson 17)	10/10	10/11 Functions, Function Notation, and Domain of a Function, Finding Function Values Algebraically (Numeric) (Lesson 18)
10/14 Finding Function Values Algebraically (Expressions), Difference Quotients, Graphing Functions (Lesson 19)	10/15	10/16 Linear Functions and Applications (Lesson 20)	10/17	10/18 Transformations: Vertical Shifts, Horizontal Shifts, Vertical Stretching and Compressing, Horizontal Stretching and Compressing, Reflecting (Lesson 21)
10/21 Transformations (all remaining topics) (Lesson 22)	10/22	10/23 IN-CLASS REVIEW FOR EXAM #4	10/24 <b><u>EXAM</u></b> <b><u>#4</u></b>	10/25 Quadratic Functions and Parabolas, The Vertex, Finding Quad. Func. Algebraically (Lesson 23)

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10/28 Quadratic Functions (all remaining topics) (Lesson 24)	10/29	10/30 Piecewise-defined Functions and Function Values, Graphing Piecewise Functions, Information about their graphs (Lesson 25)	10/31	11/1 Applications of Piecewise-defined Functions (Lesson 26)
11/4 One-to-One Functions, Inverse Functions (Lesson 27)	11/5	11/6 IN-CLASS REVIEW FOR EXAM #5	11/7 <b><u>EXAM</u></b> <b><u>#5</u></b>	11/8 Domain and Range of Inverse Functions, Checking Inverse Functions (Lesson 28)
11/11 Exponential Functions, Graphs of Exponential Functions, Formula for Interest Compounded $n$ times per Year (Lesson 29)	11/12	11/13 Natural Exponential Functions and their graphs, Finding an Exponential Function Algebraically, Formula for Interest Compounded Continuously (Lesson 30)	11/14	11/15 Logarithmic Functions, Graphs of Logarithmic Functions (Lesson 31)
11/18 Common and Natural Logarithmic Functions, Graphs of Common and Natural Log Functions, Inverse of Exp./Log. Functions (Lesson 32)	11/19	11/20 IN-CLASS REVIEW FOR EXAM #6	11/21 <b><u>EXAM</u></b> <b><u>#6</u></b>	11/22 Logarithmic Equations (Lesson 33)
11/25 Exponential Equations (Lesson 34)	11/26	11/27 <b><u>THANKSGIVING</u></b> <b><u>BREAK</u></b> <b><u>NO CLASSES</u></b>	11/28 <b><u>THANKSGIVING</u></b> <b><u>NO</u></b> <b><u>CLASSES</u></b>	11/29 <b><u>THANKSGIVING</u></b> <b><u>BREAK</u></b> <b><u>NO CLASSES</u></b>

Monday	Tuesday	Wednesday	Thursday	Friday
12/2 Solving Systems of Equations using Substitution and Applications (Lesson 35)	12/3	12/5 Solving Systems of Equations using Elimination and Applications (Lesson 36)	12/5	12/6 IN-CLASS REVIEW FOR FINAL EXAM
12/9 FINAL EXAMS WEEK	12/10	12/11 FINAL EXAMS WEEK	12/12	12/13 FINAL EXAMS WEEK