

MATH190 Syllabus

Text: Openstax Intermediate Algebra

Sections	Topics
Chapter One	Foundations
Section 1.1	Use the Language of Algebra
Section 1.2	Integers
Section 1.3	Fractions
Section 1.5	Properties of Real Numbers
Chapter Two	Solving Linear Equations
Section 2.1	Use a General Strategy to Solve Linear Equations
Section 2.3	Solve a Formula for a Specific Variable
Section 2.5	Solve Linear Inequalities
Section 2.6	Solve Compound Inequalities
Section 2.7	Solve Absolute Value Inequalities
Chapter Three	Graphs and Functions
Section 3.1	Graph Linear Equations in Two Variables
Section 3.2	Slope of a Line
Section 3.3	Find the Equation of a Line
Section 3.5	Relations and Functions
Section 3.6	Graphs of Functions
Chapter Four	Systems of Linear Equations
Section 4.1	Solve Systems of Linear Equations
Chapter Five	Polynomials and Polynomial Functions
Section 5.1	Add and Subtract Polynomials
Section 5.2	Properties of Exponents
Section 5.3	Multiply Polynomials
Section 5.4	Dividing Polynomials
Chapter Six	Factoring
Section 6.1	Greatest Common Factor and Factor by Grouping
Section 6.2	Factor Trinomials
Section 6.3	Factor Special Products
Section 6.5	Polynomial Equations
Chapter Seven	Rational Expressions and Functions
Section 7.1	Multiply and Divide Rational Expressions
Section 7.2	Add and Subtract Rational Expressions
Section 7.3	Simplify Complex Rational Expressions
Section 7.4	Solve Rational Equations
Section 7.6	Solve Rational Inequalities
Chapter 8	Roots and Radicals
Section 8.1	Simplify Expressions and Roots
Section 8.2	Simplify Radical Expressions
Section 8.3	Simplify Rational Exponents
Section 8.4	Add, Subtract, and Multiply Radical Expressions
Section 8.5	Divide Radical Expressions
Section 8.6	Solve Radical Equations
Section 8.7	Use Radical Functions
Chapter Nine	Quadratic Equations and Functions
Section 9.1	Solve Quadratic Equations Using the Square Root Property
Section 9.2	Solve Quadratic Equations by Completing the Square
Section 9.3	Solve Quadratic Equations Using the Quadratic Formula
Section 9.6	Graph Quadratic Functions Using Properties
Section 9.8	Solve Quadratic Inequalities