

Math 212 Beginning Algebra

Textbook: Woodbury Intermediate Algebra a STEM Approach 1st Edition

The following sections should be covered:

Section	Title	Notes
1.1	Introduction to Algebra	Review as Needed
1.2	Linear Equations	Review as Needed
1.3	Problem solving: Applications of Linear Equations	Review as Needed
1.6	Linear inequalities in one variable	Solving compound inequalities is not required until Math 114
2.1	The Rectangular Coordinate System; Equations in Two Variables	
2.2	Slope of a Line	
2.3	Equations of Lines	
2.4	Linear Inequalities (in two variables)	
2.5	Linear functions	Difference quotients and horizontal/vertical shifts of linear functions aren't required
3.1	Systems of Two Equations in Two Unknowns	
3.2	Applications of Systems of Equations	Select desired applications
3.3	Systems of Linear Inequalities	
4.3	Polynomials: Addition, Subtraction, and Multiplication of Polynomials	Only quadratic polynomials are required
4.5	And Introduction to Factoring: The Greatest Common Factor; Factoring by Grouping	Only quadratic polynomials are required
4.6	Factoring Trinomials of Degree Two	Objective 6, factoring polynomials of more than one variable is not required
4.7	Factoring Special Binomials	Difference of squares only
4.9	Solving Quadratic Equations by Factoring	
6.1	Square Roots; Radical Notation	Objectives 1 and 3 only
6.3	Simplifying radical expressions	Objective 1 only, and only for simplifying the square root of an integer
6.6	The Complex Numbers	Objective 1 is required, objectives 2-7 are optional
7.1	Solving Quadratic Equations by Extracting Square Roots; Completing the Square	Optional
7.2	The Quadratic Formula	
7.4	Graphing Quadratic Equations and Quadratic Functions	
7.5	Applications using Quadratic Equations	Select desired applications