

## Math 212 Beginning Algebra

### Textbook: Blitzer, Intermediate Algebra for College Students 7<sup>th</sup> Edition

The following sections should be covered:

Section	Title	Notes
1.1-1.5	Linear equations, Graphing equations, Solving Linear equations, Problem solving and using formulas	Review as needed
2.1	Introduction to functions	
2.2	Graphs of functions	
2.3	The algebra of functions	Finding the domain of a function only; algebra of functions is not required
2.4	Linear functions and slope	
2.5	Point-slope form of the equation of a line	Perpendicular lines not required
3.1	Systems of linear equations in two variables	
3.2	Applications of systems of equations	Select desired applications
4.1	Solving linear inequalities	
4.4	Linear inequalities in two variables	
5.1	Introduction to polynomials and polynomial functions	Only quadratic polynomials are required, end behavior of polynomials and leading coefficient test are not required
5.2	Multiplication of polynomials	Only quadratic polynomials are required
5.3	Greatest common factors and factoring by grouping	Only quadratic polynomials are required, factoring by grouping is not required but may be useful for factoring trinomials later
5.4	Factoring trinomials	Only factoring quadratic polynomials is required
5.5	Factoring Special Forms	Difference of perfect squares only
5.6	A general factoring strategy	Only factoring quadratic polynomials is required
5.7	Polynomial equations	Only quadratic equations
7.1	Radical expressions and functions	Only square roots of numbers
7.3	Multiplying and simplifying radical expressions	Only simplifying square roots of numbers
8.1	The square root property and completing the square	Optional
8.2	The quadratic formula	
8.3	Quadratic functions and their graphs	Select desired applications
11.1	Sequences and summation notation	
11.2	Arithmetic sequences	