

Math 114 Intermediate Algebra

Textbook: Blitzer, Intermediate Algebra for College Students 7th Edition

The following sections should be covered:

Section	Title	Notes
1.2	Operations with real numbers and simplifying algebraic expressions	Only the “Geometric meaning of absolute value” is needed from this section
1.6	Properties of Integral exponents	
1.7	Scientific notation	
4.1	Solving linear inequalities	Review as needed
4.2	Compound inequalities	
4.3	Equations and inequalities involving absolute value	
5.3-5.6	Factoring	Review as needed
6.1	Rational expressions and functions: multiplying and dividing	
6.2	Adding and subtracting rational expressions.	
6.3	Complex rational fractions	
6.6	Rational equations	
6.7	Formulas and applications of rational equations	Select desired applications
7.1	Radical expressions and functions	
7.2	Rational exponents	
7.3	Multiplying and simplifying radical expressions	
7.4	Adding subtracting, and dividing radical expressions	
7.5	Multiplying more than one term and rationalizing denominators	
7.6	Radical equations	
9.1	Exponential functions	
9.2	Composite and inverse functions	Relation of composition to inverse functions is optional
9.3	Logarithmic functions	
9.4	Properties of logarithms	
9.5	Exponential and logarithmic equations	
9.6	Exponential growth and decay	Select desired applications
10.1	Distance and midpoint formulas: Circles	
11.1	Sequences and summation notation	Review as needed
11.3	Geometric sequences and series	Sums of infinite series are optional