Course Outline
1050-90 INTERMEDIATE ALGEBRA ONLINE - Summer

Week	Section	Topic
1	**Ch1**	**Functions and Their Graphs**
	1.1	Rectangular Coordinates
	1.2	Graphs of Equations
	1.3	Linear equations
2	1.4	Functions
	1.5-1.7	Graphing and analyzing functions
	1.8,1.9	Working with functions (composition, operations, and inverses)
3	**Ch2**	**Polynomial and Rational Functions**
	2.1	Quadratic functions and models
	2.2	Polynomials
	2.3	Synthetic Division
	2.4	Complex numbers
4	2.5	Zeros of polynomial functions
	2.6	Rational functions
	Exam 1	
5	**Ch 3**	**Exponential & Logarithmic Functions**
	3.1	Exponential Functions
	3.2	Logarithmic Functions
6	3.3	Properties of Logarithms
	3.4	Exponential and logarithmic equations
	3.5	Exponential Growth Models

Week	Section	Topic
7	**Ch 7**	**Systems of Equations and Inequalities**
	7.1	Systems of equations
	7.2	Two-variable linear systems
	7.3	Multivariable linear systems
	7.4	Partial Fraction Decomposition
8	7.5	Systems of Inequalities
	7.6	Linear programming
	Exam 2	
9	**Ch 8**	**Matrices**
	8.1	Introduction to matrices
	8.2	Matrix operations
	8.3	Inverse of a matrix
10	8.4	Determinant of a matrix
	8.5	Applications of Matrices and Determinants
	Ch 9	**Sequences and Series**
	9.1	Sequences and series
11	9.2	Arithmetic sequences
	9.3	Geometric sequences
	9.5	Binomial Theorem
12		**REVIEW for FINAL EXAM**
	*** FINAL EXAM ***	