Advanced Algebra Assignments
Chapters 1-4, 10 – Fall 2016

TOPIC	ASSIGNMENT	
Apply Properties of Real Numbers	1.1:	Pg. 6-7: 3, 5, 7, 9, 11-16, 25-53 odd
Algebraic Expressions	1.2:	Pg. 13-14: 1-49 odd, 59, 60
Solving Linear Equations	1.3:	Worksheet
Rewriting Equations and Formulas	1.4:	Pg. 30-31: 3-23 odd except 17
Problem Solving Using Algebraic Models	1.5:	Group problems, Worksheet
Solving Linear Inequalities	1.6:	Pg. 44-45: 3-47 odd
Solving Absolute Value Equations	1.7:	Worksheet
Chapter 1 Review	1-R:	Review Worksheet
Represent Relations and Functions	2.1:	Worksheet
Slope and Rate of Change	2.2:	Pg. 86-87: 3-35 odd
Graph Equations of Lines	2.3:	Pg. 93-94: 1-41 odd
Writing Equations of Lines	2.4a:	Worksheet
Writing Equations of Lines	2.4b	Worksheet
Writing Equations of Lines	2.4c:	Worksheet
Model Direct Variation	2.5a:	Pg. 109-110: 1-33 odds
	2.5b:	Worksheet
Scatter Plots and Best-Fitting Lines	2.6:	Pg. 117-118: 1-6, 11-19 odd, 24, 25 list equations on all except 1-6, 17
Absolute Value Functions	2.7:	Pg. 127-128: 1-19 odd, 20-22, 29, 31
Linear Equalities in Two Variables	2.8:	Pg. 135-136: 3-21 all
Chapter 2 Review	2-R:	Review Worksheet
Solving Linear Systems by Graphing	3.1:	Worksheet
Solving Linear Systems Algebraically	3.2a	Worksheet
Solving Linear Systems Algebraically	3.2b	Worksheet
Graphing Systems of Linear Inequalities	3.3a:	Worksheet
Linear Programming Extension	3.3b:	Worksheet
Solve Systems in Three Variables	3.4	Pg. 182-183: 3,5,7,9-13
Chapter Three Part One Test Review	3-R	Review Worksheet
Perform Basic Matrix Operations	3.5a, b:	Worksheet
Multiply Matrices	3.6:	Worksheet
Evaluate Determinants	3.7:	Pg. 207-208: 3-27 odd
Find Inverse Matrices	3.8a	Worksheet
Use Inverse Matrices to Solve Linear Systems	3.8b	Pg. 214-215: 3-39 odd
Chapter 3 Part Two Test Review	3-R:	Review Worksheet
Graphing Quadratic Functions in Standard Form	4.1, 4.2a:	Worksheet
Graphing Quadratic Functions in Vertex or Intercept Form	4.2b:	Worksheet
Factoring 1	F-1:	Worksheet
Factoring 2	F-2:	Worksheet

Factoring Review	F-3	Worksheet
Solving Quadratic Equations by Factoring	4.3:	Pg. 255-256: 25-55 odd, 59
Solving Quadratic Equations by Factoring	4.4:	Pg. 263-264: 23-49 odd
Solving Quadratic Equations using Square Roots	4.5:	Pg. 269-270: 3-33 odd
Complex Numbers	4.6:	Pg. 279-280: 3-41 odd
Ch. 4 Part One Review	4-R:	Review Worksheet
Completing the Square	4.7:	Worksheet
Quadratic Formula, Discriminant	4.8:	Pg. 296-297: 3-23 odd, 31-36 all
Modeling with Quadratic Functions	4.10:	Pg. 312-313: 3-25 odd
Ch. 4 Part Two Review	4-R:	Review Worksheet
Fundamental Counting Principal, Permutations	10.1a: Worksheet	
Permutations	10.1b: Worksheet	
Combinations	10.2: Worksheet	
Probability	10.3: Pg. 701-702: 3-15 odd, 29, 31, 34	
Final Review	FR-R Final Review Worksheet	