## Math 0702 Course Outline Spring 2018

- Note 1: Skip ALL objectives using calculators in every chapter.
- <u>Note 2</u>: Section numbers are listed beside each of the topics below. The numbers in parentheses that follow the reference to a section are the objectives that will be covered in that section. If no objectives appear beside a section number, then all objectives will be covered.

Unit 1	Linear Equations and Inequalities and Problem Solving			* 10 lecture hours
	Topic 1:	Solving Linear Equations	§2.1	
	Topic 2:	Application Problems	§2.2	
	, Topic 3:	Solving Linear Inequalities	§2.4	
	Topic 4:	Solving Compound Inequalities	§2.5	
	Topic 5:	Solving Absolute Value Equations and Inequalities	§2.6; §2.7	
	Test 1	Wednesday, February 7 <sup>th</sup>		
Unit 2	Linear Functions and Their Graphs, Equations of Lines, and Exponents			13 lecture hours
	Topic 1:	Graphing Equations	§3.1	
	Topic 2:	Introduction to Functions	§3.2	
	Topic 3:	Graphing Linear Functions	§3.3	
	Topic 4:	Slope and the Equation of a Line	§3.4: §3.5	
	Topic 5:	Laws and Definitions of Exponents and Using Them	§5.1 (1-4); §5.2 (1,2)	
	Test 2	Friday, March 2 <sup>nd</sup>		
Unit 3	Polynomial and Rational Functions		15 lecture hours	
	Topic 1:	Polynomials and Polynomial Functions	<b>§</b> 5.3	
	Topic 2:	Multiplying Polynomials	§5.4	
	Topic 3:	Greatest Common Factor and Factoring by Grouping	§5.5	
	Topic 4:	Factoring Trinomials	§5.6 (1.2)	
	Topic 5:	Factoring by Special Products	§5.7	
	Topic 6:	Solving Equations by Factoring and Problem Solving	§5.8	
	Topic 7:	Rational Functions: Operations with Rational Expressions	86 1 (1-4)· 86 2	
	Topic 8:	Dividing by a Monomial; The Remainder Theorem	§6.4 (1,3,4)	
	Test 3	Wednesday, April 11 <sup>m</sup>		
Unit 4	Radicals and Rational Exponents			8 lecture hours
	Topic 1:	Radicals and Radical Functions	§7.1 (1,3-6)	
	Topic 2:	Simplifying Radical Expressions	§7.3 (1-3)	
	, Topic 3:	Adding, Subtracting, and Multiplying Radical Expressions	§7.4	
	Topic 4:	Rational Exponents	§7.2	
	Final Exam - Thursday, May 3 <sup>rd</sup> 3:30 - 5:30 pm			

\* Lecture hours are tied to credits, so there are 4 lecture-hours (50 minute hours) per week.