Math 0701 Course Outline
Spring 2017

Note 1 : *Skip ALL objectives using calculators in every chapter.*

Note 2 : *Section numbers are listed beside each of the topics below. The letters 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 Order of Operations, Geometric Figures, and Integers *** 10 lecture hours**

Topic 1:	Variables, Exponents, and Order of Operations	§1.1
Topic 2:	Perimeter and Area of Geometric Figures	§1.2; §1.3 (skip trapezoids)
Topic 3:	Volume and Surface Area of Geometric Figures	§1.4 (skip cones and spheres)
Topic 4:	Integers; Addition and Subtraction of Integers	§1.5 b-e; §1.6 a,b; §1.7 a
Topic 5:	Multiplication and Division of Integers	§2.1 a,b; §2.5

Test 1 *Tuesday, 2/7 - Wednesday, 2/8*

Unit 2 Polynomials and Linear Equations and Inequalities **13 lecture hours**

Topic 1:	Polynomial Definitions and Combining Polynomials	§1.7 b (no assignment); §1.8
Topic 2:	Addition and Multiplication Properties of Equality	§3.1; §3.2
Topic 3:	Combining Properties to Solve Linear Equations	§3.3; §7.6 a
Topic 4:	Application Problems	§3.5 a,c
Topic 5:	Solving Linear Inequalities	§3.8 a-e, interval notation

Test 2 *Monday, 3/6 - Tuesday, 3/7*

Unit 3 Graphs and Equations of Lines and Applying the Laws of Exponents **14 lecture hours**

Topic 1:	Graphs and Graphing Linear Equations in Two Variables	§4.1 b-f; §4.2; §4.3
Topic 2:	Slope and the Equation of a Line	§4.4; §4.5 a-c
Topic 3:	Multiplication Laws of Exponents	§2.2
Topic 4:	Products of Polynomials	§2.3; §2.4 a,b,c
Topic 5:	More Laws of Exponents and Using Them	§2.6; §2.7; §2.8

Test 3 *Monday, 4/10 - Tuesday, 4/11*

Unit 4 Factoring Polynomials, Solving Polynomial Equations, and Reducing Rational Expressions **8 lecture hours**

Topic 1:	The Greatest Common Factor	§5.2
Topic 2:	Factoring Trinomials	§5.3; §5.4
Topic 3:	Factoring the Difference of Squares	§5.5 a
Topic 4:	Solving Quadratic Equations by Factoring	§5.8 a,c
Topic 5:	Reducing Rational Expressions	§6.2 (skip Examples 3 and 4)

Final Exam - *Thursday, May 4th* **3:30 - 5:30 pm**

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