

Math 0702 Course Outline Spring 2018

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

Note 2: 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**

<i>Topic 1:</i>	Solving Linear Equations	§2.1
<i>Topic 2:</i>	Application Problems	§2.2
<i>Topic 3:</i>	Solving Linear Inequalities	§2.4
<i>Topic 4:</i>	Solving Compound Inequalities	§2.5
<i>Topic 5:</i>	Solving Absolute Value Equations and Inequalities	§2.6; §2.7

Test 1 *Tuesday, February 6th*

Unit 2 **Linear Functions and Their Graphs, Equations of Lines, and Exponents** **13 lecture hours**

<i>Topic 1:</i>	Graphing Equations	§3.1
<i>Topic 2:</i>	Introduction to Functions	§3.2
<i>Topic 3:</i>	Graphing Linear Functions	§3.3
<i>Topic 4:</i>	Slope and the Equation of a Line	§3.4; §3.5
<i>Topic 5:</i>	Laws and Definitions of Exponents and Using Them	§5.1 (1-4); §5.2 (1,2)

Test 2 *Thursday, March 1st*

Unit 3 **Polynomial and Rational Functions** **15 lecture hours**

<i>Topic 1:</i>	Polynomials and Polynomial Functions	§5.3
<i>Topic 2:</i>	Multiplying Polynomials	§5.4
<i>Topic 3:</i>	Greatest Common Factor and Factoring by Grouping	§5.5
<i>Topic 4:</i>	Factoring Trinomials	§5.6 (1,2)
<i>Topic 5:</i>	Factoring by Special Products	§5.7
<i>Topic 6:</i>	Solving Equations by Factoring and Problem Solving	§5.8
<i>Topic 7:</i>	Rational Functions; Operations with Rational Expressions	§6.1 (1-4); §6.2
<i>Topic 8:</i>	Dividing by a Monomial; The Remainder Theorem	§6.4 (1,3,4)

Test 3 *Tuesday, April 10th*

Unit 4 **Radicals and Rational Exponents** **8 lecture hours**

<i>Topic 1:</i>	Radicals and Radical Functions	§7.1 (1,3-6)
<i>Topic 2:</i>	Simplifying Radical Expressions	§7.3 (1-3)
<i>Topic 3:</i>	Adding, Subtracting, and Multiplying Radical Expressions	§7.4
<i>Topic 4:</i>	Rational Exponents	§7.2

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

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