

**Math 210**  
**Practical Mathematics**

**Text:** *Technical Mathematics*, 5th edition, Calter and Calter, Wiley, 2007.

**Prerequisites:** Credit in Math 105 or Math 107. **A TI83, TI83+, or TI84 graphing calculator is required.**

**Special note:** All answers for this course are to be reported using the rules for significant figures and/or exact numbers.

Lesson	Section and Topic	Assignment
1	1.1 Real Numbers	10-19,22,25,27,29,30,33,35,36,38
	1.2 Approximate Numbers	9,12-18
	1.3 Operations with Exact Num.	1,5,6,9,10,12,13,15,16,18
	1.4 Approximate Numbers	1,9,13,22,23-30
	1.5 Powers and Roots	4,6,8-10,12,14,16,20,22,28,32,37,41,45,46,49,51,53,56,60,62,67,70
	1.6 Combined Operations	1,4,7,10,13,16,19,22,25,28,31,34,37,40
2	1.8 Units of Measurement	3,6,9,12,14,18,21,24,27,30-32,34,35,38,41,42,46,48,50,62,65,68
	1.9 Percentage	2-16 even,19,21,23,26,27,30,34,36,39,42,44,46,47,51,54,58,60,63,66
	5.1 Straight Lines and Angles	1-6
	5.2 Triangles	9,11,12,14,15,17,18,21,23,24
3	5.3 Quadrilaterals	1a,1c,2a,2c,2e,3-9
	5.4 The Circle	1,3,5,7,8,10,13,16,19,20,22,23,24
	5.5 Volume and Areas of Solids	1,2,5,7,8,9,11,12,13,16,19,23,27
4	Review	
	<b>Test 1</b>	<b>Chapters 1 &amp; 5</b>
	6.1 The Trig. Functions	1a,1d,2a,2c,3a,3m,4,5,7,10,12,14,16
	6.2 Sol. Of Right Triangles	3,8,9,12,15,18,21
5	6.3 Applications of the Right Triangles	10,12,13,18,19,20,23,25,27,28,31
	7.1 Trig Funct. of Any Angle	1,4-6,8,10,11,13,15,16,19,20,23,24,26,28-45,47-52,55,58,61,67,68,70,73,74,77
	7.2 Finding the Angle	1-3,5-8,12,13,16
6	7.3 Law of Sines	1a,1b,2,6,7a,7b,8-12
	7.4 Law of Cosines	1a,1b,2,3,7a,8,10,11
	7.5 Applications	1,2,4,5,8,10,12,14,15,17,19,20,23
7	Review	
	<b>Test 2</b>	<b>Chapter 6 Sections 1-3 &amp; Chapter 7 Sections 1-5</b>
	6.4 Introduction to Vectors	1,4,9,10,11,14,16
8	6.5 Applications of Vectors	8-13
	7.6 Nonperpendicular Vectors	1,4,6,7,10,12,13,16,19,22,24,25,26
	13.1 Radian Measure	1-58 column 1,67,70,73,74
	13.2 Arc Length	2,5,9,11,14,15,18,20-23,26,28,31,34
9	13.3 Uniform Circular Motion	1,4,5,7-17
	14.1 The Sine Curve	1-3,5,8,9,11,14,17
	14.2 Graphing the Sine Curve	1-4
	14.3 The Cosine Curve	1-3,5,9,10
10	Review	
	<b>Test 3</b>	<b>C 6 Sec 4 &amp; 5,C7 Sec 6,C 13,C14 Sections 1-3</b>
	16.1 Ratio and Proportion	1,4,7,10,13,19

Lesson	Section and Topic	Assignment
11	16.2 Similar Figures	1,4,6,9,10
	16.3 Direct Variation	1,4,7,8,10,12,14,15,17
	16.4 The Power Function	1,4,6,7,9,11,12,15,17,19,20,22,25
	16.5 Inverse Variation	1,4,7,13,17,20,24
12	16.6 Joint and Combination Variation	1,4,7,10,11,14,16,17,19,21,23,26,27
	17.2 Logarithms	1-12,13-46 column 1
	17.3 Properties of Logarithms	1,5,9,12,13,17,20,22,24 (Do <b>not</b> use change of base formula)
	17.4 Exponential Equations	1-3,6-8,18,21,23,24,26-29
13	17.5 Logarithmic Equations	1-18 even,19,20,22-26,35
	Review	
	<b>Test 4</b>	<b>Chapters 16 &amp; 17</b>
	Review for Final	
14	<b>Final Exam</b>	

**Emergency Evacuation Procedure:** A map of this floor is posted near the elevator marking the evacuation route and the **Designated Rescue Area**. This is an area where emergency service personnel will go first to look for individuals who need assistance in exiting the building. Students who may need assistance should identify themselves to the teaching faculty.

Last updated 7 August 2007.