

Math 210
Practical Mathematics

Text: *Technical Mathematics*, 6th edition, Paul Calter and Michael Calter, Wiley, 2011.

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	13-20, 25 - 28, 37, 38, 40, 41, 42, 44, 46
	1.2 Addition and Subtraction	9, 12-18
	1.3 Multiplication	5, 9, 10, 17, 18, 20 - 25
	1.4 Division	5, 11, 15, 17, 20, 21 - 26, 28
	1.5 Powers and Roots	9, 10, 16, 25, 28, 36, 40, 48 - 50, 57, 59 - 61, 63 - 65, 67, 70, 75
	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, 31, 32, 34, 41, 42, 46, 48, 50
	1.9 Percentage	2-16 (even), 21, 23, 26, 30, 34, 36, 42, 44, 46, 47, 51, 54, 58, 60, 63
	6.1 Straight Lines and Angles	1-6
	6.2 Triangles	1, 3 - 5, 8, 9 - 14, 16 - 18, 20, 22, 23, 27
3	6.3 Quadrilaterals	1a, c, 2b, c, e, 3-9
	6.4 The Circle	1, 4, 5, 7, 10 - 12, 14, 16, 19, 20, 23, 25, 30
	6.5 Polyhedra	1, 3, 6, 8, 10, 13, 17, 20, 27, 29, 30
	6.6 Cylinder, Cone and Sphere	1a, b, 3, 5, 9, 11, 14, 15, 22, 23, 24a, 28
4	Chapter 1 Review	1 - 12, 16, 17, 19, 22 - 26, 29, 30, 32, 33, 37 - 41, 43, 47 - 50, 52, 62, 63, 65 - 69, 74
	Chapter 6 Review	1, 2, 4 - 9, 13, 14, 16 - 24, 26
	Test 1	Chapters 1 and 6
	7.1 The Trig Functions	1a, c, 2a, c, 3a, m, 4, 5, 7, 10, 12, 14,15, 16a, d
	7.2 Solving a Right Triangle	1, 3, 8, 9, 11, 12, 15, 18, 19
5	7.3 Applications of Right Triangles	1 - 3, 6, 7, 11 - 13, 15, 18, 19, 21, 24, 26, 28, 30, 31, 35
	7.4 Angles in Standard Position	1 - 3
	8.1 Trig Functions of Any Angle	2, 4, 6
	8.2 Finding the Angle	1 - 5, 6, 9 - 11, 13, 14, 16 - 18, 22 - 29, 33
6	8.3 Law of Sines	1a, 1b, 2, 6, 7a, b, 10 - 12
	8.4 Law of Cosines	1a, 1b, 2, 3, 7a, b, 8, 10, 11
	8.5 Applications	1, 2, 4, 5, 8, 10, 12, 15, 17, 23, 27, 28
7	Chapter 7 Review	4 - 12, 16, 17, 25, 27, 29
	Chapter 8 Review	1 - 4, 6 - 18, 34 - 39, 44
	Test 2	Chapter 7 Sections 1 - 4, and Chapter 8 Sections 1 - 5
	7.5 Introduction to Vectors	1,2, 6, 7, 11, 14, 16
8	7.6 Applications of Vectors	8-13
	8.6 Nonperpendicular Vectors	2 - 4, 7, 9 - 13, 15 - 17, 19, 22, 24 - 26
	14.1 Radian Measure	1 - 46 column 1, 52, 73, 74, 79
	14.2 Arc Length	1 - 3, 6, 7, 10 - 12, 15, 16, 18, 21, 24, 25, 31, 34
9	14.3 Uniform Circular Motion	1, 4, 5, 7 - 9, 11 - 20
	15.1 The Sine Curve	2, 3, 6, 7, 19 - 22
	15.2 Graphing the Sine Curve	1-4
	15.4 The Cosine Curve	1 - 3, 6, 9, 10
10	Chapter 7 Review	13 - 15, 31
	Chapter 8 Review	19 - 21, 23, 40 - 42
	Chapter 14 Review	1 - 12, 18 - 21, 32 - 34
	Chapter 15 Review	1 - 5
	Test 3	C 7 Sec 5 and 6, C 8 Sec 6, C 14, C 15 Sections 1 - 3
	17.1 Ratio and Proportion	1, 4, 5, 7, 10, 13, 19

Lesson	Section and Topic	Assignment
11	17.2 Similar Figures	1, 4, 6, 9, 10
	17.3 Direct Variation	1, 4, 7, 8, 10, 12, 14, 15, 17
	17.4 The Power Function	1, 4, 6, 7, 8, 9, 11, 12, 15, 17, 19, 20, 22, 25
	17.5 Inverse Variation	1, 4, 7, 13, 17, 20, 24
12	17.6 Joint and Combination Variation	1, 4, 7, 10, 11, 14, 16, 17, 19, 21, 23, 26, 27
	18.2 Logarithms	1 - 12, 13 - 46 column 1
	18.3 Properties of Logarithms	1, 5, 9, 12, 13, 17, 20, 22, 23, 24 (Do not use change of base formula)
	18.4 Exponential Equations	1 - 3, 6 - 8, 18, 21, 23, 24, 26 - 29
13	18.5 Logarithmic Equations	1 - 18 even, 19, 20, 22 - 26
	Chapter 17 Review	1, 2, 4 - 7, 14, 16, 18 - 20, 22, 25, 29, 30, 37
	Chapter 18 Review	1 - 16, 21, 25, 28, 35, 36, 38
	Test 4	Chapters 17 and 18
	Review For Final	
14	Final Exam	

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 19 August 2011.