

MATH 142 SCHEDULE and SUGGESTED PRACTICE PROBLEMS

These problems are from the text Algebra and Trigonometry by Sullivan (8th Ed). Do the odd-numbered problems from the list unless indicated otherwise. EOO = Every Other Odd

Week**	Section	Topics	Problems
1	7.1	Angles and Their Measure	41-57, 71-77, 87, 89, 97-101, 111, 115
2	7.2	Right Triangle Trigonometry	25-47, 55, 59, 68, 71, 75, 76
3	7.3	Computing the Values of Trigonometric Functions of Acute Angles	17-27, 47-61, 71
	7.4	Trigonometric Functions of General Angles	1-105 EOO
4	7.5	Unit Circle Approach; Properties of Trig Functions	1-85 EOO, 63, 69, 72
	7.6	Graphs of Sine and Cosine Functions	9-27,43-67
5	7.7	Graphs of Other Trig Functions	7-39
	7.8	Phase Shift; Sinusoidal Curve Fitting	3-25
6		Review, Exam 1	
7	8.1	The Inverse Sine, Cosine and Tangent Functions	13-65 EOO
	8.2	The Inverse Trig Functions (Continued)	9-65 EOO, 58, 60, 64
	8.3	Trig Identities	19-99 EOO
8	8.4	Sum and Difference Formulas	9-85 EOO, 83, 84, 86
	8.5	Double-angle and Half-angle Formulas	7-67 EOO, 69-77 (All odd)
	8.6	Product-to-Sum and Sum-to-Product Formulas	1-21 EOO
9	8.7	Trigonometric Equations (I)	7-39, 55, 57, 64
	8.8	Trigonometric Equations (II)	5-45, 65, 68, 69
10	9.2	The Law of Sines	9-41 EOO, 47, 53
	9.3	The Law of Cosines	9-31 EOO, 35-41,45
11		Review, Trig Final	
	10.1	Polar Coordinates	11-79 EOO
	10.2	Polar Equations and Graphs	13-77 EOO
12	10.3	The Complex Plane; De Moivre's Theorem	11-59 EOO
13	11.2	The Parabola	11-53 EOO, 67, 69, 73
	11.3	The Ellipse	13-69 EOO, 71, 75, 79
14		THANKSGIVING BREAK	
15	11.4	The Hyperbola	13-61 EOO, 67, 71, 73
	11.6	Polar Equations of Conics	7-41
16	11.7	Plane Curves and Parametric Equations	7-43 EOO, 49, 55, 58
		Review	

** These are approximate schedules.