Course Plan for Fall 2021 Precalculus Trigonometry

- M – W – F, 11:15am-12:05pm Lectures are in MSB 109,

	Topics	Recommended Homework	
M – Aug. 16	(5.1) Angle measure, degrees vs. radians, arclength,	7,21,23,27,35,41,47,51,53,55,59,61,67	
W – Aug. 18	(5.1) Angle measure, degrees vs. radians, arclength,		
F – Aug. 20	(5.2) Unit circle, sine, cosine, reference angles	7,8,11,19,21,23,27,31,35,43,47,51,53,55,61,67,71,79,95	
M – Aug. 23	(5.3) Recip. trig. Functions, Pythagorean and recip. identities	7,9,14,19,24,25,30,35,39,42,43,45,51,63,68,69,71	
W – Aug. 25	(5.4) Right triangle trigonometry	7,9,11,15,17,19,23,27,29,30,35,39,42,47,53,55	
F – Aug. 27	(5.4) Right triangle trigonometry		
M – Aug. 30	(6.1) Graphs of sine and cosine	9,13,17,23,25,26,31,32,39,42,	
W – Sep. 1	(6.1) Graphs of sine and cosine		
F – Sep. 3	Examples		
M – Sep. 6	Labor Day		
W- Sep. 8	Examples		
F- Sep. 10	Examples		
M- Sep. 13	Review for Test 1 (via video)		
W- Sep. 15	Test 1 (covers Chapter 5 and 6.1)		
F- Sep. 17	(6.2) Graphs of other trig	19, 29, 30, 35, 41, 43, 45, 56	
M- Sep. 20	(6.3) Inverse trig. Functions	9, 11,19, 25, 27, 31, 35, 37, 38, 39, 41, 46, 47, 53, 57, 59	
W- Sep. 22	(7.1) Solving Trig. Equations with Identities	7,9, 11,15, 17, 23, 27, 29, 31, 35, 38, 39	
F- Sep. 24	(7.1) Solving Trig. Equations with Identities		
M- Sep. 27	(7.2) Sum and Difference Identities	5, 9, 10, 11, 12, 13, 15, 18, 19, 21, 23, 27, 31	
W- Sep. 29	(7.2) Sum and Difference Identities	33, 37, 39, 40, 47, 48, 51, 55, 56	
F- Oct. 1	(7.3) Double-Angle, Half-Angle and Reduction Formulas	5, 9, 11, 13, 18, 23, 24, 25, 33, 34, 36, 55, 59, 61	
M- Oct. 4	(7.4) Sum-to-Product and Product-to-Sum Formulas	6, 7, 9, 11, 14, 23, 32, 33, 37, 38, 49, 53, 63	
W- Oct. 6	(7.5) Solving Trigonometric Functions	5,9,10,13,17,21,25,29,31,33,37,39,41,45,53,57,62,65,89,93,101	
F- Oct. 8	(7.6) Modeling with Trig. Equations	5,7,13,29,	
M-Oct. 11	(7.6) Modeling with Trig. Equations		
T- Oct. 12	Assessment Day (aka no class day)		

	Topics	Recommended Homework	
W- Oct. 13	Examples		
F- Oct. 15	Test 2 (covers Chapters 6 and 7)		
M- Oct. 18	(8.1) Non-Right Triangles: Law of Sines	35, 39, 45, 61, 63, 77 (these were already on Test 2)	
W- Oct. 20	(8.2) Non-Right Triangles: Law of Cosines	33, 35, 39, 43, 63, 71 (these were already on Test 2)	
F- Oct. 22	(8.2) Heron's Formula for Area	47, 49, 77 (use Heron's Formula, was not on Test 2)	
M- Oct. 25	(8.3) Polar Coordinates (covered 10-20-21)	7, 9, 11, 13, 15, 17, 21, 25, 29, 33, 35, 39, 41, 63, 65, 67, 79,81,83	
W- Oct. 27	(8.4) Polar Coordinates: Graphs	7, 13, 17, 21, 25, 37, 38, 41, 47, 53	
F- Oct. 29	(8.5) Polar Form of Complex Numbers (10-22-21)	See handout for problems for sections below…	
M- Nov. 1	(8.5) Polar Form of Complex Numbers		
W- Nov. 3	(8.8) Vectors		
F- Nov. 5	(8.8) Vectors		
M- Nov. 8	(8.8) Vectors		
W- Nov. 10	3D-vectors, dot and cross product, applications		
F- Nov. 12	3D-vectors, dot and cross product, applications		
M- Nov. 15	3D-vectors, dot and cross product, applications		
W- Nov. 17	Examples		
F- Nov. 19	Test 3 (covers material past Test 2)		
	THANKSGIVING BREAK !!! (November 22-26)		
M- Nov. 29	Stories from beyond, in-class course survey		
W- Dec. 1	Examples		
T – Dec. 7	Final Exam 2:00pm – 4:00pm		