

**Math 110 MWF**  
**Pre-Calculus, Trigonometry and Function Theory**

**Text:** *Precalculus: Functions and Graphs*, 3rd edition, Mark Dugopolski, Pearson, 2009

**Prerequisites:** a) Math 109 with a grade of "C" or better; b) Math ACT of at least 25; or c) Sufficient score on one of the department's placement exams. Please be sure that you satisfy one of these requirements. **A graphing calculator is required.** A TI-83, TI-86, TI-89 or TI-92 is strongly recommended.

Tutoring is available in Lee Hall.

Lesson	Section and Topic	Assignment
1	5.1 Angles and Their Measure	1,3,10,11,15,16,24,25,29,33,35,39,41,43,48,49,51,55,61,63,65,69,72,83,85,89
2	5.1 Continued	91,93,97,100,102,105,110,112,115
3	5.2 Sine and Cosine	1-3,8,10,12,16,17,29,31,37,39,40,49,50,51,54,55,59,61,63,70,73,76,79,80,89,90,93,94,100
4	5.3 Graphing Sine and Cosine	1-6,9,10,13,15,19,20,24,25,28,33,37,38,41,43,47,48,56,59
5	5.3 Continued	73-75,77,79,83,85,89,92,94
6	5.4 Other Trig Functions	1,2,5,8,11,16,21,29,31,35,40,51,58,67,70,89,92
7	5.6 Right Triangle Trig	3,6,9,13,23,26,28,30,42,43,45,47,48,50,51,56,64
8	5.5 Inverse Trig Functions	1-3,6-10,13,14,17,19,20,27,29,30,33,34,38,49,52,55,58,65-69,71,72,81,82
9	<b>Chapter 5 Review</b>	Chapter 5 Test 1-9,12-16,21-28
10	<b>TEST 1</b>	Chapter 5
11	6.1 Basic Identities	1,2,4,5,8,11,13-15,23-25,27,31,32,35-37,39,40,43,45,87,88,90,91,94,95,97,99,100,103,104
12	6.2 Verifying Identities	1-4,6,7,21,23,26-30,32,35,36,41,42,47-52,57,60
13	6.2 Continued	62,65,75,77,87,89,90,95,96
14	6.3 Sum and Difference	1,3,4,5-8,12-15,18,19,23-26,31,32,36,37,39,41,46-48,50,54
15	6.3 Continued	63-66,74-76,81,82,84,89,91,95,96
16	6.4 Double angles	1-4,23,24,27,28,51-53,55,57,58,75,76,78,81,82
17	6.6 Trig Equations	1-4,7,8,11,15,16,19,20,22-25,27,30-32,37-39,42,47,48
18	6.6 Continued	63-66,73,75,83,84,89,90,97,99,100,107,109,110
19	<b>Chapter 6 Review</b>	Chapter 6 Test 1-6,9-12,16
20	<b>TEST 2</b>	Chapter 6
21	7.1 Law of Sines	1,4-6,8-10,13,15,20,21,23,26,29,32,35,38,42
22	7.2 Law of Cosines	2,3,5,7,8,15,16,18,20,23,25,26,31-36
23	7.2 Continued	39,40,41,44,51,56
24	7.3 Vectors	1,3-5,13,16,19,23,24,33,34,59,62,75,78,80
25	7.3 Continued	85,88,89,91,96,101,103,104,107
26	7.4 Complex Numbers	1,4,7,10,13,14,16,19,20,22,25,29-31,33,41,42,45-48,51,52,71-73
27	7.5 Complex Powers and Roots	1-3,5,6,11,12,17,18,23,24,27-30,33,38,42,45,46,51
28	7.6 Polar Coordinates	1-7,10,11,14,15,21,24,27,32,33,36,37,40,45,46,55,57,60,61,69,75,76,78,81,85,87-90,93,96,97
29	<b>Test 3 Review (7.1-7.6)</b>	Chapter 7 Test 1-5,9,10,12-16,18-20,22,23,26
30	<b>TEST 3</b>	

Lesson	Section and Topic	Assignment
31	7.7 Parametric Equations	1,2,5,6,13-15,18,29-31,35-38
32	9.1 Solving Systems with Matrices	1-6,7,9,10,13,15,16,19,21,23-26,29,34
33	9.1 Continued	(Solve with calculator) 41,48,52,53-55,58,63
34	10.1 Parabola	1-3,6,7,9-12,17,19-21,23,24,27,29,32,34,37,41,42,47,48,51,54,55,63,64,69,70,73-77
35	10.2 Ellipse and Circle	1,4-6,12,13,18-21,24,25,28,33,34,37-40,43,45,47,50,55,56,
36	10.2 Continued	67-70,72,75,77-80,82,83
37	10.3 Hyperbola	1,3,6,7,9,16,17,19,22,25,27,28,31,34,35,38,41,42,48-50
38	<b>Test 4 Review (7.7,9.1,10.1-10.3)</b>	Rework some homework from these sections
39	<b>TEST 4</b>	
40	<b>Review for Final Exam</b>	
41	<b>Review for 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 17 August 2008.