

Math 1214 Syllabus - Fall 2025

Precalculus, 2nd Edition, by Julie Miller and Donna Gerken (with ALEKS access)

Week	Day	Section	Topic	Textbook Problems
Week 1	Aug 25-29	M	Introduction to Precalculus	
		W	1.1 The Rectangular Coordinate System	p. 129 # 10, 14, 18, 20, 24, 34, 36, 46, 48, 49, 57, 62, 65, 70
		F	1.1/1.3 The Rectangular Coordinate System/ Functions and Relations	p. 150 # 10,12,18,22,32,38,50,58,76,80
Week 2	Sept 1-5	M	No Class- Labor Day	
		W	1.3 Functions and Relations	p. 152 # 90, 94, 96, 100, 104
		F	1.4/1.5 Linear Equations in Two Variables and Linear Functions	p. 166 # 10,12,22,26,34,38,42,44
Week 3	Sept 8-12	M	1.4/1.5 Applications of Linear Equations and Modeling	p. 167 # 52,54,58,62,64,66,70,80,82,88 p. 181 # 8,12,20,22,24,28,32,36,40,42,48,50
		W	1.6 Transformations of Graphs	p. 199 # 16,24,26
		F	1.6 Transformations of Graphs	p. 200 # 28,32,36,38,44,56,64
Week 4	Sept 15-19	M	1.7 Analyzing Graphs of Functions and Piecewise Defined Functions	p. 217 # 8,10,14,16,19,20,34,38,44,46
		W	1.7/1.8 Analyzing Graphs of Functions and Piecewise Defined Functions/ Algebra of Functions and Function Composition	p. 218 # 48,66,68,70,90,92,98,100,112 p. 233 # 10,12,14,16,18,22,28,30,40,42
		F	1.8 Algebra of Functions and Function Composition	p. 234 # 50,56,60,62,64,66,75,80,84,86,94,98
Week 5	Sept 22-26	M	2.1 Quadratic Functions and Applications	p. 259 # 8,14,18,20,26,30,36,42
		W	Optional Review during class time Test 1 [Time: 7:00pm-8:15pm]	Sections 1.1 - 1.8
		F	2.1/2.2 Quadratic Functions and Applications/ Introduction to Polynomial Functions	p. 276 # 2,3,4,5,12,14,16,18,20
Week 6	Sept 29-Oct 3	M	2.2/2.3 Introduction to Polynomial Functions/ Division of Polynomials and the Remainder and Factor Theorems	p. 276 # 22, 26, 30, 38, 46, 48, 50, 52, 60, 64 p. 291 # 10,14,16,18,20
		W	2.3 Division of Polynomials and the Remainder and Factor Theorems	p. 292 # 24, 30,32,36,46,48
		F	2.3/2.5/2.6 Division of Polynomials and the Remainder and Factor Theorems/ Introduction to Rational functions/Graphs of Rational Functions	p. 322 # 8,10,12,14,18,20,22,24,32,34,36

Week 7	Oct 6-10	M	2.5/2.6	Introduction to Rational Functions/ Graphs of Rational Functions	p. 337 # 16,26,34,36
		W	3.1	Inverse Functions	p. 384 # 8,18,22,30,36
		F	3.1	Inverse Functions	p. 384 # 40,46,50,52,54
Week 8	Oct 13-17	M	3.2	Exponential Functions	p. 397 # 14,16,18,20,28,30,32,40,44
		W	3.3	Logarithmic Functions	p. 413 # 12,16,20,24,38,40,44,62,64,66,76,78,80,82,86,88,90
		F		Fall Break - No Classes	
Week 9	Oct 20-24	M	3.4	Properties of Logarithms	p. 426 # 8,12,16,18,32,36,44,48,56,60,62,80
		W	3.5	Exponential and Logarithmic Equations and Applications	p. 438 # 10,12,16,24,38,44
		F	3.5	Exponential and Logarithmic Equations and Applications	p. 438 # 30,32, 34, 50, 54, 56
Week 10	Oct 27-Oct 31	M	4.1	Angles and Their Measure	p. 478 # 26,35,36,40,48,74
		W	Review Test	Optional Review during class time Test 2 [Time: 7:00pm-8:15pm]	Sections 2.1-2.3, 2.5, 3.1-3.5
		F	4.2	Trigonometric Functions Defined on the Unit Circle	p. 498 # 4,6,14,16,19,20,26,42
Week 11	Nov 3-7	M	4.2/4.3	Trigonometric Functions Defined on the Unit Circle/ Right Triangle Trigonometry	p. 513 # 14,16,24,28,31,32,56
		W	4.3	Right Triangle Trigonometry	p. 515 # 40,42,44,54
		F	4.4	Trigonometric Functions of Any Angle	p. 527 # 8,14,16,18,21,24,26
Week 12	Nov 10-14	M	4.4/4.5	Trigonometric Functions of Any Angle/ Graphs of Sine and Cosine Functions	p. 528 # 36,42,56,60,64,68,72,76 p. 543 # 1,2,9,10,11,12
		W	4.5	Graphs of Sine and Cosine Functions	p. 544 # 28,30,32,34,38
		F	4.6	Graphs of Other Trigonometric Functions	p. 560 # 1,2,3,4,9,10,39,40
Week 13	Nov 17-21	M	4.7	Inverse Trigonometric Functions	p. 575 # 8,14,18,22,26,28
		W	4.7	Inverse Trigonometric Functions	p. 575 # 1,2,3,4,5,6,48,52,58,60,64
		F	5.1	Fundamental Trigonometric Identities	p. 599 # 1,2,4,5,10,12,14,18,26,34
Thanksgiving Break					
Week 14	Dec 1-5	M	Review Test	Optional Review during class time Test 3 <u>TUESDAY</u>, Dec 2 [Time: 7:00pm-8:15pm]	Sections 4.1 - 4.7
		W	5.1	Fundamental Trigonometric Identities	p. 600 # 42,44,48,52
		F	5.5	Trigonometric Equations	p. 641 # 1,2
Week 15	Dec 8-10	M	5.5	Trigonometric Equations	p. 642 # 6,8,12,13,14,15,16,17,18
		W	Review	Review for Final Exam	Sections 1.1-1.8, 2.1-2.3, 2.5, 3.1-3.5, 4.1-4.7, 5.1, 5.5

Final Exam	17-Dec	W		Final Exam [Time: 7:45-9:45am]	Comprehensive
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