

Math 223 - Summer 2026 Syllabus

Date	Section	Topic	#	Homework
June				
1	12.3-12.4	Dot and Cross Product	#1	696/ 3, 13, 19, 27,43 708/ 9, 17, 23, 41, 47
2	12.5	Planes	#2	716/ 17, 21, 27, 33, 57
3	12.6-12.7	Quadratic Surfaces / Cylindrical and Spherical Coordinates	#3	725/ 1, 3, 5 732/ 1, 5, 11, 15, 19, 25, 37, 47
4	13.1-13.2	Vector Valued Functions	#4	741/ 9, 11, 19, 31 752/ 1, 5, 7, 17, 25, 39
8	13.3	Arc Length and Speed	#5	758/ 1, 5, 9, 17, 19
9	13.4	Unit Tangent - Curvature	#6	769/1, 3, 11, 13, 15, 29, 43
10	13.5	Motion Along a Curve	#7	778/ 11, 13, 15, 35, 37
11	Review			
15	Test 1			
16	14.1-14.2	Functions of Several Variables, Limits	#8	798/ 7, 9, 19, 21, 33 806/ 1, 5, 9, 19, 23, 31
17	14.3	Partial Derivatives	#9	815/ 13, 19, 25, 33, 41, 57, 61
18	14.4	Tangent Planes	#10	826/ 3, 5, 7, 13, 15, 23
22	14.5	Directional Derivative, Gradient Vector	#11	838/ 9, 11, 15, 17, 21, 27, 29
23	14.6	Chain Rule	#12	847/ 3, 5, 11, 15, 25, 27
24	14.7	Max and Min	#13	861/ 7, 9, 11, 13, 23, 29
25	14.8	Lagrange Multipliers	#14	871/ 5, 7, 9, 13, 33
29	Review			
30	Test 2			

July

1	15.1-15.2	Double Integrals	#15	888/ 15, 19, 27, 33, 37 902/ 17, 19, 25, 33, 35
2	15.3	Triple Integrals	#16	914/ 3, 5, 13, 17, 23, 27
6	15.4	Double Integrals in Polar	#17	925/ 7, 9, 11, 13, 15, 17, 19
7	15.5	Triple Int in Cylind, Spherical Coord.	#18	926 27, 29, 31, 33, 41, 43, 45
8	15.6	Change of Variables	#19	950/ 1, 13, 17, 21, 25, 31
9	Review			
13	Test 3			
14	16.1	Vector Fields	#20	965/ 3, 5, 11, 17
15	16.2	Line Integrals	#21	979/ 9, 11, 19, 21, 23
16	16.3	Conservative Vector Fields	#22	993/ 7, 11, 13, 17, 21
20	16.4	Surface Integrals	#23	1006/ 1, 3, 5, 7, 13, 15
21	17.1	Green's Theorem	#24	1034/ 1, 3, 5, 7, 11, 13
22	Review			
23	Final			