

	SECTION	MATH 03 TOPIC	Tu/Th	SYLLABUS HOMEWORK ASSIGNMENT	Instr. Dr. Nick Bykov
January					
18	11.1	3-Space, Spheres, Cylinders		1,5,10,12,15,16,19-22,24,27,30,32,33,36,39,42,48	
	11.2	Vectors		2,3,6,8,9,12,15,17-20,22,24,25,28,31,34,39,42,45,48,50,52	
20	11.3	Dot Product. Projections		1,2,6,8,9,10,12,13,16,20,22,25,26,28-31	
	11.4	Cross Product		2,4,7,10,12,13-16,19,17,20,23,24,26,28,29,32,34	
25	11.5	Parametric Equations	1,4,5,8,9,11-14,16,19,22,24,25,28,29,32,33,36,37,41,44,45,48,49,56,57		
27	11.6	Planes		2,4,6,9,12,13,16,18,19,21-24,25,26,28,31,34,36,41,44,46,48,50	
February					
1	11.7	Quadric Surfaces		1,4,5,8,9,11-14,17,18,21,24,27,32,34,38,39,44,47	
	11.8	Cylindrical and Spherical Coordinates		1,4,5,8,9,12,15-18,19,23,24,26,27,28,32,33,35,36,40,41,45,47,50	
3		Chapter 11 Practice Test, Chapter 11 Test			
8	12.1	Vector-Valued Functions		2,3,6,8,12,13,18,21,24,27,28,30,31-34,37,40,41,47	
	12.2	Calculus of Vector-Valued Functions		2,4,5,8,10,15,20,21,23,26,30,32,33,37,41-44,38,46,47,52	
10	12.3	Change of Parameter. Arc Length		2,4,6,7,10,11,14,15,17-20,23,24,25,27,28,30,40,42,44	
15	12.4	Unit Tangent, Normal, Binormal Vct.		2,4,6,9,10,12,13,15,18,20,21-24	
17	12.5	Curvature		1,4,6,7,10,12,14,15,18,19-22,24,25,26,28,30,32,33,34,42,46,48,52	
22	12.6	Motion Along a Curve		1,4,7,10,14,18,19,22,27,30,32,34,36,38,40,44,46,47-50	
24		Chapter 12 Practice Test, Chapter 12 Test			
March					
1	13.1	Functions of 2 Variables		1,2,4,6,7,8,13,16,17,20,21,24,25-28,31,34,37,40,44,45,50,51,56,57	
	13.2	Limits and Continuity	1,4,5,7,10,12,13,14,16,17,19,20,21,24,26,28,29-32,34,36,38,39,41,44,48,50		
3	13.3	PD 2,5,6,8,11,13-16,18,21,24,25,30,33,36,39,42,48,52,54,57,62,63,66,67,69,72,74,76,81,83,84,86,88,92			
8	13.4	Differentiability, Differentials	2,3,9,12,14,17,19,22,25,27-30,32,36,39,41,46,48,50,51,54,56,58,59,61		
	13.5	The Chain Rule		1,4,8,9,14,18,21,24,27,30,34,35-38,40,44,49,54	
10	13.6	Gradients	1,4,6,11,14,16,18,20,23,25,28,30,31,34,37,40,43,44,46,48,50,53,55,58,60,61-64,66,71,82		
	13.7	Tangent Planes and Normal Vectors		2,5,8,12,15,17-20,21,25,29	
15	13.8	Maxima and Minima		1,4,6,7,10,12,15,18,23-26,28,30,31,34,36,38,41,44,46,47	
17		Chapter 13 Practice Test, Chapter 13 Test			
22	14.1	Double Integrals		1,2,5,6,10,12,13,14,16,20,22,23-26,29,32,33,36	
	14.2	Double Integrals	1,3,4,8,10,12,13,16,19,22,24,25,29,32,33-36,37,39,42,44,47,50,51,54,55,60		
24	14.3	Double Integrals in Polar Coordinates		2,5,8,9,13,16,17,20,22,24,25,28,30,33,35-38,42,45	
April					
5	14.4	Parametric Surfaces; Surface Area		1,4,5,7,10,12,13,16,17,19,22,24,25,27,30,38,40,42,43,46,47-50	
7	14.5	Triple Integrals		1,4,6,7,10,12,15,17,20,22,24,25,27-30,39	
12	14.7	Change of Variables; Jacobians		1,4,5,8,10,11,13-16,18,19,21,23,24,26,29,31,34,35,36,38	
14		Chapter 14 Practice Test, Chapter 14 Test			
19	15.1	Vector Fields		2,3,6,7,11-14,15,18,21,24,25,28,35,38,41	
21	15.2	Line Integrals		1,4,7,10,11-14,15,18,19,21,24,26,29,32,35,42,43,46,48	
26	15.3	Independence of Path		1,4,6,8,9,12,14,15,18,19-22,23,28,32,35	
28	15.4	Green's Theorem		1,3,4,7,8,11,12,14,15-18,22,26,29,30,37,40	
May					
3	15.5	Surface Integrals		2,5,8,9-12,13,17,18,19,24,35,36	
5	15.6	Applications		1,4,5,7,10,13,16,19-22,23,24,26	
10	15.7	The Divergence Theorem		1,4,5-8,10,13,16,19,20,21,22,24,27,28,33,34	
12	15.8	Stokes' Theorem		1,2,4,5,6,9,10,12,13-16,19	
17		Chapter 15 Practice Test, Chapter 15 Test			
19		Review for the Final		TBA Final Exam	