

Week	Date	Topic	Homework
1	W 8/18	3-D Coordinate System	[12.1] 1-39
	F 20	Vectors	[12.2] 1-25, 35-45
2	M 23	Dot Product	[12.3] 1-27, 49-59
	T 24	Mathematica Tutorial (due 8/31)	
3	W 25	Cross Product	[12.4] 1-5, 9-35, 43-49
	F 27	Lines and Planes	[12.5] 1-19, 23-45
4	M 30	More Lines and Planes	[12.5] 49-55, 59-73
	T 31	Mathematica Lab #1 (due 9/7)	
5	W 9/1	Quiz #1: Vectors	
	F 3	Parametric Equations	[10.1] 1-27, 33, 37, 41, 43
6	M 6	No Class – Labor Day	
	T 7	Slopes and Areas	[10.2] 1-21, 25-33
7	W 8	Arc Length and Surface Area	[10.2] 37a, 39a, 41-51, 57a, 59, 61, 65, 73
	F 10	Vector Functions	[13.1] 1, 7-11, 15-27, 35, 37, 41
8	M 13	Velocity, Acceleration	[13.2] 1-25, 31, 41, 47-51 [13.4] 1-15, 19
	T 14	Mathematica Lab #2 (due 9/21)	
9	W 15	Arc Length and Curvature	[13.3] 1-5, 11-15, 21-33, 37
	F 17	Review [R10] 1-7, 21, 25, 29, 37, 41 [R12] 1-11, 15-21, 25, 27 [R13] 1, 3, 7, 9, 13, 17	
10	M 20	Test #1: Vectors and Parametric Curves	
	T 21	Multivariable Functions	[14.1] 1-5, 11-15, 21-33, 39-45, 55-61, 65
11	W 22	Partial Derivatives	[14.3] 1-9, 15-43, 49-77, 87
	F 24	Directional Derivatives	[14.6] 1-19, 35-43
12	M 27	The Gradient	[14.6] 21-33, 49-57
	T 28	Mathematica Lab #3 (due 10/6)	
13	W 29	Vector Fields	[16.1] 1-17, 21-25, 29, 31
	F 10/1	Tangent Planes	[14.4] 1-5, 11-23
14	M 4	Chain Rules	[14.5] 1-25, 35, 39, 41
	T 5	Quiz #2: Partial Derivatives	
15	W 6	Second Derivative Test	[14.7] 1-17
	F 8	Max/Min Problems	worksheet #1

Week	Date	Topic	Homework
9	M 11	More Max/Min	worksheet #2
	T 12	Mathematica Lab #4 (due 10/22)	
	W 13	Lagrange Multipliers	[14.8] 1-19
	F 15	No Class – Fall Break	
10	M 18	More Lagrange Multipliers	[14.8] 25-37, 41
	T 19	Review [R14] 1-7, 11-23, 25a, 31-39, 43-53, 59-65	
	W 20	Test #2: Partial Derivatives and Applications	
F 22	Volumes	[15.1] 1-13	
M 25	Double Integrals	[15.2] 1-31, 35	
11	T 26	Mathematica Lab #5 (due 11/5)	
	W 27	No Class – Town Hall Meeting	
	F 29	Non-Rectangular Regions	[15.3] 1-27
M 11/1	Reversing Order	[15.3] 31, 33, 39-57, 61	
12	T 2	Centers of Mass	[15.5] 3-15
	W 3	Quiz #3: Double Integrals	
	F 5	Polar Coordinates and Slopes	[10.3] 15-49, 57-69
M 8	Polar Areas and Lengths	[10.4] -41, 45, 47, 53	
13	T 9	Mathematica Lab #6 (due 11/17)	
	W 10	Polar Double Integrals	[15.4] 1-13, 19-31, 35
	F 12	Parametric Surfaces	[16.6] 3, 5, 13-25
M 15	Surface Area	[16.6] 37-47, 51a	
14	T 16	Quiz #4: Polar Coordinates	
	W 17	Triple Integrals	[15.6] 3-21
	F 19	More Triple Integrals	[15.6] 25-39, 51
M 22	Change of Variables	[15.9] 1-15, 19-23	
15	T 23	Cylindrical & Spherical Coordinates	[15.7] 15-27 [15.8] 17-31, 35, 39
	W 24	No Class – Thanksgiving Break	
	F 26	No Class – Thanksgiving Break	
16	M 29	Review [R10] 9-17, 31-35 [R15] 1-39, 45-49 [R16] 25	
	T 30	Mathematica Test	
	W 12/1	Test #3: Multiple Integrals	
F 3	Review for Final Exam		
W 8	Final Exam (2-4 pm)		