

Fall 2011: Calculus III Schedule

Week	Day	Sect	Exercises	Quiz
29-Aug 1	M		Course Intro	
	W	1.1	Vectors (1 - 29 odd, 32, 33, 34)	
	R	1.2	Inner Product (1 - 31 odd, 37, 42)	
	F	1.3	Cross Product (1 - 21 odd, 27, 31, 32, 36, 38)	1.1
5-Sep 2	M		Labor Day	
	W	1.4	Lines and Planes (1 - 27 odd, 29,33,37)	
	R	1.5	Vector-Valued Functions (1 - 31 odd, 37, 39)	1.2 & 1.3
	F		Introduction to Maple	
12-Sep 3	M	1.6	Velocity and Accel(1 - 27 odd, 31, 33)	
	W	1.7	Speed (1 - 29 odd, 33, 39)	
	R	1.8	Curvature (1 - 17 odd, 27, 29)	1.4 - 1.6
	F	2.1	Functions of 2 Var (1 - 33 odd)	
19-Sep 4	M	2.2	Limits(1 - 31 odd)	
	W		Review	
	R		Test 1 on Chapter 1	
	F	2.3	Partial Derivatives(1 - 33 odd)	
26-Sep 5	M	2.4	Partial Differential Equations(1 - 15 odd, 25)	
	W	2.4	Partial Differential Equations (17 - 21 odd, 29, 31)	
	R	2.5	Linearization (1 - 19 odd)	2.1 - 2.3
	F	2.6	The Chain Rule (1 - 31 odd)	
3-Oct 6	M	2.7	Gradients and Level Curves (1 - 37 odd)	
	W	2.8	Optimization (1 - 29 odd, 31, 35)	
	R	2.9	Lagrange Multipliers (1 - 21 odd, 27, 29)	2.5 - 2.7
	F	3.1	Coordinate Transformations (1 - 35 odd)	2.8
10-Oct 7	M	3.2	Polar Coordinates (1 - 31 odd, 35)	
	W		Review	
	R		Test 2 on Chapter 2	
	F	3.3	The Jacobian (1 - 15 odd, 21 - 29 odd, 35)	
17-Oct 8	M		Fall Break	
	W	3.4	Surfaces (1 - 25 odd, 33, 35)	
	R	3.5	Curvilinear Coordinates(1 - 27 odd, 31, 39)	3.1 - 3.2
	F	3.6	Tangent Planes (1 - 25 odd, 31, 40)	
24-Oct 9	M	3.7	Curves on Surfaces (1 - 25 odd, 31, 33)	
	W		Review	
	R		Test 3 on Chapter 3	
	F	3.8	Intrinsic Geometry (optional)	
31-Oct	M	4.1	Iterated Integrals (1 - 23 odd, 39, 31)	

10	W	4.2	Double Integrals (1 - 27 odd, 33, 37)	
	R	4.3	Applications (1 - 19 odd, 38, 39)	3.8
	F	4.3	Probability (21 - 37 odd)	
7-Nov	M	4.4	Change of Variable (1 - 24 odd, 31, 33, 37)	
11	W	4.5	Polar Coordinates (1 - 27 odd, 33, 35)	
	R	4.6	Triple Integrals (1 - 19 odd, 25, 27, 28)	4.1 - 4.3
	F	4.7	Spherical Coordinates (1 - 25 odd, 33, 36)	
14-Nov	M		Review	
12	W		Review	
	R		Test 4 on Chapter 4	
	F		Keplers Laws	
21-Nov	M	5.1	Vector Fields (1 - 25 odd, 33)	
13	W		Thanksgiving	
	R		Thanksgiving	
	F		Thanksgiving	
28-Nov	M	5.2	Line Integrals (1 - 27 odd, 31, 36)	
14	W	5.3	Potentials (1 - 15 odd, 33)	
	R	5.4	Green's Theorem (1 - 35 odd)	
	F	5.5	Surface Integrals (1 - 15 odd, 19, 25)	5.1 - 5.3
5-Dec	M	5.6	Divergence Theorem (1 - 13 odd, 19, 25)	
15	W	5.7	Stoke's Theorem(1 - 7 odd)	
	R	5.8	Differential Forms	
	F		Review	

Final Exam: Monday, Dec. 12, from 3:50 - 5:50