

Calendar for Calculus III, Spring 2009

Matthew Leingang <leingang@cims.nyu.edu>

May 04, 2009

Course topics by week

Week	Dates	Section	Topics
1	1/20–1/24	10.1	Three-dimensional Coordinate Systems
2	1/27–1/31	10.2	Vectors
		10.3	The Dot Product
		10.4	The Cross Product
3	2/2–2/6	10.5	Equations of Lines and Planes
		10.6	Cylinders and Quadric Surfaces
4	2/9–2/13	10.7	Vector functions and space curves
		10.8	Arc length and Curvature
		10.9	Motion in Space: Velocity and Acceleration
5	2/16–2/20	11.1	Functions of Several Variables
		11.2	Limits and Continuity
6	2/23–2/27	11.3	Partial Derivatives
		11.4	Tangent Planes and Linear Approximation
		11.5	The Chain Rule
7	3/2–3/6	11.6	Directional Derivatives and the Gradient Vector
		Midterm	
8	3/9–3/13	11.7	Maximum and Minimum Values
		11.8	Lagrange Multipliers
SB	3/16–3/20	Spring Break	
9	3/23–3/27	12.1	Double Integrals over Rectangles
		12.2	Double Integrals over General Regions
		12.3	Double Integrals in Polar Coordinates
10	3/30–4/3	12.5	Triple Integrals
		12.6	Triple Integrals in Cylindrical Coordinates
		12.7	Triple Integrals in Spherical Coordinates
11	4/6–4/10	13.1	Vector Fields
		13.2	Line Integrals
		13.3	The Fundamental Theorem of Line Integrals

Week	Dates	Section	Topics
12	4/13–4/17	13.4	Green's Theorem
		13.5	Curl and Divergence
13	4/20–4/24	13.6	Parametric Surfaces and their Areas
		13.7	Surface Integrals
14	4/27–5/1	13.8	Stokes's Theorem
		13.9	The Divergence Theorem
15	5/4	Review (MW, MWF only)	

Class meeting times and final exam times

Section	Class Days	Class Time	Class Location	Final Date	Final Time
1	MWF	09:30am– 10:45am	SILV 512	5/6/09	8:00am–9:50am
2	MW	02:00pm– 03:50pm	48CS 113	5/11/09	2:00pm–3:50pm
3	TRF	09:30am– 10:45am	GODD A	5/12/09	8:00am–9:50am
4	TR	06:20pm– 08:10pm	SILV 501	5/7/09	8:00pm–9:50pm
5	MWF	09:30am– 10:45am	SILV 701	5/6/09	8:00am–9:50am