

Calendar for Calculus III, Spring 2010

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Course topics by week

Week	Dates	Section	Topics
1	1/18–1/21	10.1	Three-dimensional Coordinate Systems
		10.2	Vectors (TR only)
2	1/25–1/24	10.2	Vectors
		10.3	The Dot Product
		10.4	The Cross Product
3	2/1–2/4	10.5	Equations of Lines and Planes
		10.6	Cylinders and Quadric Surfaces
4	2/8–2/11	10.7	Vector functions and space curves
		10.8	Arc length and Curvature
		10.9	Motion in Space: Velocity and Acceleration
5	2/15–2/18	11.1	Functions of Several Variables
		11.2	Limits and Continuity
		11.3	Partial Derivatives (TR)
6	2/22–2/25	11.3	Partial Derivatives (MW)
		11.4	Tangent Planes and Linear Approximation
		11.5	The Chain Rule
7	3/1–3/4	11.6	Directional Derivatives and the Gradient Vector
		Midterm	
8	3/8–3/11	11.7	Maximum and Minimum Values
		11.8	Lagrange Multipliers
SB	3/15–3/19	Spring Break	
9	3/22–3/26	12.1	Double Integrals over Rectangles
		12.2	Double Integrals over General Regions
		12.3	Double Integrals in Polar Coordinates
10	3/29–4/1	12.5	Triple Integrals
		12.6	Triple Integrals in Cylindrical Coordinates
		12.7	Triple Integrals in Spherical Coordinates

Week	Dates	Section	Topics
11	4/5–4/8	13.1	Vector Fields
		13.2	Line Integrals
		13.3	The Fundamental Theorem of Line Integrals
12	4/12–4/15	13.4	Green's Theorem
		13.5	Curl and Divergence
13	4/19–4/22	13.6	Parametric Surfaces and their Areas
		13.7	Surface Integrals
14	4/26–4/29	13.8	Stokes's Theorem
		13.9	The Divergence Theorem
15	5/3	Review (MW sections)	

For final exam days and times by class meeting time, please see the [registrar's exam page](#).