

MA 213 Calendar for §13-16 Fall 2013

Date	Section	Topic
Chapter 12: Vector Geometry		
W 8/28	§12.1-12.2	Vectors in the plane and in space
F 8/30	§12.3	The dot product and the angle between two vectors
M 9/2	No class	Labor Day
W 9/4	§12.4	The cross product
F 9/6	§12.5	Equations of lines and planes in three-space
M 9/9	§12.6	Quadric surfaces (review conic sections in §11.5)
W 9/11	§11.3-11.4	Review of polar coordinates
F 9/13	§12.7	Cylindrical and spherical coordinates
Chapter 13: Calculus of vector-valued functions		
M 9/16	§13.1	Vector-valued functions
W 9/18	§13.2	Calculus of vector-valued functions
F 9/20	§13.3	Arc length and speed
M 9/23	§13.4	Curvature
W 9/25	§13.5	Motion in space
Chapter 14: Differentiation in several variables		
F 9/27	§14.1	Functions of two or more variables
M 9/30	§14.2	Limits and continuity in several variables
W 10/2	§14.3	Partial derivatives
F 10/4	§14.4	Differentiability and tangent planes
M 10/7	Review for Midterm exam I	
W 10/9	Midterm exam I	
F 10/11	§14.5	The gradient and directional derivatives
M 10/14	§14.6	The chain rule
W 10/16	§14.7	Optimization in several variables

Chapter 15: Multiple Calculus

F 10/18	§15.1	Integration in two variables
M 10/21	§15.1	(continued)
W 10/23	§15.2	Double integrals over more general regions
F 10/25	§15.2	(continued)
M 10/28	§15.3	Triple integrals
W 10/30	§15.3	(continued)
F 11/1	§15.4	Integration in polar, cylindrical and spherical coordinates
M 11/4	§15.4	(continued)
W 11/6	§15.5	Applications of multiple integrals

Chapter 16: Line and surface integrals

F 11/8	§15.6	Change of variable
M 11/11		Review for Midterm II
W 11/13		Midterm Exam II
F 11/15	§15.6	Change of variables (continued)
M 11/18	§16.1	Vector fields
W 11/20	§16.2	Line integrals

Chapter 17 Fundamental theorems of vector analysis

F 11/22	§16.3	Conservative vector fields
M 11/25	§16.3	Conservative vector fields (continued)
W 11/27		No class Thanksgiving Break
M 12/2	§17.1	Green's Theorem
W 12/4	§16.5	Surface Integrals
F 12/6	§17.2	Stokes' Theorem
M 12/9	§17.2	Stokes' Theorem (continued)
W 12/11		Review for final exam
F 12/13		Review for final exam
M 12/16		Final exam 10:30 am-12:30 pm.