

Math 215 Sample Calendar

Week	Textbook Sections	Topics	Exams
1	12.1, 12.2, 12.3, 12.4	Three dimensional coordinate systems, vectors, dot and cross product	
2	12.5, 12.6	Equations of lines and planes, cylinders, quadratic surfaces	Gateway Exam available
3	13.1, 13.2, 13.3, 13.4	Vector functions, space curves, derivatives and integrals of vector functions, arc length	Gateway Exam available
4	14.1, 14.3, 14.4	Functions of several variables, partial derivatives, tangent planes	
5	14.5, 14.6	Chain rule, directional derivatives, and the gradient vector	
6	14.7, 14.8	Constrained and unconstrained optimization, Lagrange multipliers	Midterm 1
7	15.1, 15.2	Double integrals over rectangles and general regions	
8	15.3, 15.4	Double integrals in polar coordinates and applications	
9	15.5, 15.6, 15.7	Surface area, triple integrals in cartesian and cylindrical coordiantes	
10	15.8, 15.9, 16.1	triple integrals in spherical coordinates, change of variables in double integrals, vector fields	
11	16.2, 16.3	Line integrals, conservative vector fields, and the Fundamental Theorem for line integrals	Midterm 2
12	16.4, 16.5	Green's theorem, curl and divergence	
13	16.6, 16.7	Parametric surfaces and surface integrals	
14	16.8	Stokes' Theorem	
15	16.9	Divergence Theorem	
16	Exam Review	Exam Review	Final Exam