

Schedule and Homework Assignments
Math 2443–003/004, Spring 2005

Approximate Schedule

Week	Topics	Week	Topics
Jan 18 – Jan 20	15.1 – 15.2	Mar 15 – Mar 17	Spring Break
Jan 25 – Jan 27	15.3 – 15.4	Mar 22 – Mar 24	17.1 – 17.2
Feb 1 – Feb 2	15.4 – 15.6	Mar 29 – Mar 31	17.3 – 17.4
Feb 8 – Feb 10	Exam 1, 15.6 – 16.1	Apr 1	Last day to drop without Dean's permission
Feb 15 – Feb 17	16.1 – 16.4	Apr 5 – Apr 7	17.5 – 17.6
Feb 22 – Feb 24	16.4 – 16.6	Apr 12 – Apr 14	Exam 3, 17.6
Feb 25	Last day to drop with auto. W	Apr 19 – Apr 21	17.7 – 17.8
Mar 1 – Mar 3	16.6 – 16.7	Apr 26 – Apr 28	17.8 – 17.9
Mar 8 – Mar 10	Exam 2, 16.7 – 16.8	May 3 – May 5	15.7

Homework by Section

Section	Topic	Homework
15.1	Functions of Several Variables	5, 6, 7, 14-16, 30-32, 34, 53-58
15.2	Limits and Continuity	1, 2, 5, 6, 8, 10, 27, 28
15.3	Partial Derivatives	1, 6, 20-24, 31, 38, 42, 56, 60, 66, 68(b)(d)(f)
15.4	Tangent Planes and Linear Approximations	5, 12, 24, 27, 30, 34, 37
15.5	The Chain Rule	5, 9, 14, 20, 22, 29, 39, 43, 50
15.6	Directional Derivatives and the Gradient Vector	4, 9, 14, 17, 22, 27, 34, 41, 44, 48
16.1	Double Integrals over Rectangles	5, 8, 9, 11-14
16.2	Iterated Integrals	9, 12, 16, 19, 27, 29
16.3	Double Integrals over General Regions	6, 12, 13, 15, 20, 24, 38, 41, 44
16.4	Double Integrals in Polar Coordinates	9, 12, 17, 22, 30, 31
16.5	Applications of Double Integrals	6, 7, 11, 12
16.6	Surface Area	3, 7, 10
16.7	Triple Integrals	5, 7, 15, 17, 22(a), 25, 27, 30, 38
16.8	Triple Integrals in Cylindrical and Spherical Coordinates	3, 4, 6, 9, 13(a), 16, 18, 21, 35, 36
17.1	Vector Fields	1, 5, 6, 11-14, 23, 24, 26, 29-32
17.2	Line Integrals	2, 3, 6, 7, 17-19, 21, 31, 32
17.3	The Fundamental Theorem for Line Integrals	1, 2, 5, 6, 12, 18, 19, 23, 27
17.4	Green's Theorem	2, 3, 9, 11, 12, 15, 27
17.5	Curl and Divergence	1, 4, 7, 9-12, 15, 16, 21, 22
17.6	Parametric Surfaces and their Areas	1-4, 17-22, 32, 33, 35, 38
17.7	Surface Integrals	5-7, 11, 13, 14, 19, 21-24, 26
17.8	Stokes' Theorem	4, 5, 8-10, 14, 15
17.9	The Divergence Theorem	1-3, 5, 6, 8, 9, 13, 15
15.7	Maximum and Minimum Values	3-6, 30-32, 48, 49