

Math 249, Multivariable Calculus Tentative Schedule:

MONDAY	WEDNESDAY	FRIDAY
Jan 10th 1 syllabus, 12.1-2 3D Coordinates Prep: watch 12.1, 12.2	12th 2 12.3 Dot product, HF 1	14th 3 12.4 Cross product, HF 2
17th MLK Day	19th 4 10.1/12.5 Lines and planes	21st 5 12.6 Quadric surfaces, HF 3
24th 6 13.1 Vector functions, Gateway	26th 7 13.2 Calculus on vector functions, HF 4	28th 8 13.3 Arc length and curvature
31st 9 13.4 Acceleration/review	Feb 2nd 10 Exam I	4th 11 14.1 Functions of several variables, HF 5
7th 12 14.2 Limits and continuity, HF 6	9th 13 14.3 Partial derivatives, HF 7	11th 14 14.4 Tangent planes and linearization
14th 15 14.5 The Chain Rule	16th 16 14.6 Directional Derivatives	18th 17 14.7 Local optimization, HF 8
21st Mid-Semester Break	23rd 18 14.7 Global optimization	25th 19 14.8 Lagrange Multipliers
28th 20 Optimization recap	Mar 2nd 21 Review	4th 22 Exam II
7th 23 15.1 Double integrals	9th 24 15.2 Iterated integrals/15.3 Double integrals over general regions	11th 25 15.4 Double integrals in polar coordinates, HF 9
14th 26 15.6 Triple integrals, HF 10	16th 27 15.7-8 Cylindrical and Spherical Coordinates	18th 28 15.7-8 Cylindrical and Spherical Coordinates (CONT.)
21st Spring Break	23rd Spring Break	25th Spring Break

MONDAY		WEDNESDAY		FRIDAY	
28th	29	30th	30	Apr 1st	31
15.9 Change of variables (general)		16.1 Vector fields, start 16.2 path integrals, HF 11		16.2 Path integrals, HF 12	
4th	32	6th	33	8th	34
16.3 FTCLI		Review/catch-up		Exam III	
11th	35	13th		15th	36
16.4 Green's Theorem, HF 13		SSRD		16.5 Curl and Divergence, HF 14	
18th	37	20th	38	22nd	39
16.6 Parametric surfaces		16.7 Surface integrals		16.8 Stokes' Theorem, HF 15	
25th	40	27th	41	29th	42
16.9 The Divergence Theorem		Catch-up, Review (Last day!)			