

Syllabus

Jan. 18	Computer Intro	
20	1.1/1.2 (11.2/11.3) Vectors & Dot Product	
23	1.2/1.3 (11.3/11.4) Dot and Cross Product	Quiz 1
25	1.4 (11.5) Lines	
27	1.4 (11.5) Planes	
30	2.1 (12.1) Vector Functions (using Mma)	Quiz 2
Feb. 1	2.1 (12.2) Derivatives, Integrals, Tangents & Normals	
3	2.4/2.3 (12.4) Tangents & Normals, Motion, Acceleration	
6	2.2 (12.3) Directed Distance, Smooth Curves	Quiz 3
Feb. 8	3.1 (13.1) Functions of Several Variables	Assignment 1
10	3.2 (13.2) Limits & Continuity	
13	3.3 (13.3) Partial Derivatives	
15	Review	
16	Exam I	
17	3.4 (13.4) Chain Rule	
20	3.5 (13.5) Directional Derivatives & Gradients	Quiz 4
22	3.6 (13.6) Tangent Planes & Normal Lines	
24	3.7 (13.8) Maxima, Minima & Saddle Points	
27	3.7 (13.8) Maxima, Minima & Saddle Points	Quiz 5
Mar. 1	3.8 (13.9) Lagrange Multipliers	
3	3.8 (13.9) Lagrange Multipliers	
6	4.1 (14.1) Double Integrals	Quiz 6
8	4.1 (14.1) Double Integrals	Assignment 2
10	4.2 (14.2) Areas, Moments, Centers	
13–17	Midsemester Break	
20	4.3 (14.3) Double Integrals in Polar Form	
22	Review	
23	Exam II	
24	4.4 (14.4) Triple Integrals, Volume, Guidelines	
27	4.5/4.6 (14.5/14.6) Mass & Moments in 3D, Cylindrical Coordinates	Quiz 7
29	4.6 (14.6) Triple Integrals in Spherical Coordinates	
31	4.7 (14.7) Substitutions in Multiple Integrals	
Apr. 3	4.7 (14.7) Substitutions, Intro to Vector Analysis	Quiz 8
5	5.1 (15.1) Vector Fields	Assignment 3
7	5.2 (15.2) Line Integrals (functions)	
10	5.2 (15.2) Line Integrals (vector fields)	Quiz 9
12	5.3 (15.3) Green's Theorem	
14	Easter Break	
17	Easter Break	
19	Review	
20	Exam III	
21	5.4 (15.4) Surface Integrals	
24	5.4 (15.4) Surface Integrals	Quiz 10
26	5.4 (15.4) Flux Integrals (+ Stokes')	Assignment 4
28	5.5 (15.5) Stokes' Theorem	
May 1	5.6 (15.6) Divergence Theorem	
3	Review	
5	Study Day	
May 9	Tuesday, 1:45 P.M., Final Exam	