Math 225: Calculus III **Spring 1994**

Syllabus

Jan. 12	1.1/1.2 (11.2/11.3) Vectors & Dot Product	
14	1.2/1.3 (11.3/11.4) Dot and Cross Product	
17	1.4 (11.5) Lines	*Quiz 1*
19	1.4 (11.5) Planes	
21	2.1 (12.1) Vector Functions	
24	2.2 (12.1/12.2) Derivatives & Integrals, Motion	*Quiz 2*
26	2.2 (12.3) Directed Distance	
28	2.3 (12.4) Tangents & Normals	
31	2.4 (12.4) Tangents & Normals	
Feb. 2	*Review*	
3	**Exam I**	
4	3.1 (13.1) Functions of Several Variables	
7	3.2 (13.2) Limits & Continuity	*Quiz 3*
9	3.3 (13.3) Partial Derivatives	
11	3.4 (13.4) Chain Rule	
14	3.5 (13.5) Directional Derivatives & Gradients	*Quiz 4*
16	3.6 (13.6) Tangent Planes & Normal Lines	
18	3.7 (13.8) Maxima, Minima & Saddle Points	
21	3.7 (13.8) Maxima, Minima & Saddle Points	*Quiz 5*
23	3.8 (13.9) Lagrange Multipliers	
25	3.8 (13.9) Lagrange Multipliers	
28	4.1 (14.1) Double Integrals	*Quiz 6*
Mar. 2	4.2 (14.2) Areas, Moments, Centers	
4	4.3 (14.3) Double Integrals in Polar Form	
5–13	**Midsemester Break**	
14	4.4 (14.4) Triple Integrals	
16	*Review*	
17	**Exam II**	
18	4.5 (14.5) Mass & Moments in 3D	
21	4.6 (14.6) Triple Integrals in Cylindrical Coordinates	*Quiz 7*
23	4.6 (14.6) Triple Integrals in Spherical Coordinates	
25	4.7 (14.7) Substitutions in Multiple Integrals	
28	4.8 Examples or 15.1 Vector Fields	*Quiz 8*
30	5.1 (15.1) Vector Fields	
Apr. 1	*Easter Break*	
4	*Easter Break*	*Quiz 9*
6	5.2 (15.2) Line Integrals	
8	5.2 (15.2) Line Integrals	
11	5.3 (15.3) Green's Theorem	
13	*Review*	
14	**Exam III**	
15	5.4 (15.4) Surface Integrals	
18	5.4 (15.4) Surface Integrals	*Quiz 10*
20	5.4 (15.4) Flux Integrals (+ Stokes')	
22	5.5 (15.5) Stokes' Theorem	
25	5.6 (15.6) Divergence Theorem	
27	*Review*	
29	*Study Day*	
May 2	Monday 1:45 **Final Exam**	