Math 225: Calculus III   **Spring 1996**
Syllabus

Jan. 17	Computer Intro	
19	1.1/1.2 (11.2/11.3) Vectors & Computers	
22	1.2/1.3 (11.3/11.4) Dot and Cross Product	*Quiz/Assignment 1*
24	1.4 (11.5) Lines	
26	1.4 (11.5) Planes	
29	2.1 (12.1) Vector Functions (using Mma)	*Quiz/Assignment 2*
31	2.1 (12.2) Derivatives, Integrals, Tangents & Normals	
Feb. 2	2.4/2.3 (12.4) Tangents & Normals, Motion, Acceleration	
5	2.2 (12.3) Directed Distance, Smooth Curves	*Quiz/Assignment 3*
7	3.1 (13.1) Functions of Several Variables	
9	3.2 (13.2) Limits & Continuity	
12	3.3 (13.3) Partial Derivatives	
14	*Review*	
15	**Exam I**	
16	3.4 (13.4) Chain Rule	
19	3.5 (13.5) Directional Derivatives & Gradients	*Quiz/Assignment 4*
21	3.6 (13.6) Tangent Planes & Normal Lines	
23	3.7 (13.8) Maxima, Minima & Saddle Points	
26	3.7 (13.8) Maxima, Minima & Saddle Points	*Quiz/Assignment 5*
28	3.8 (13.9) Lagrange Multipliers	
Mar. 1	3.8 (13.9) Lagrange Multipliers	
4	4.1 (14.1) Double Integrals	*Quiz/Assignment 6*
6	4.1 (14.1) Double Integrals	
8	4.2 (14.2) Areas, Moments, Centers	
11–15	**Midsemester Break**	
18	4.3 (14.3) Double Integrals in Polar Form	
20	*Review*	
21	**Exam II**	
22	4.4 (14.4) Triple Integrals, Volume, Guidelines	
25	4.5/4.6 (14.5/14.6) Mass & Moments in 3D, Cylindrical Coordinates	*Quiz/Assignment 7*
27	4.6 (14.6) Triple Integrals in Spherical Coordinates	
29	4.7 (14.7) Substitutions in Multiple Integrals	
Apr. 1	5.2 (15.2) Substitutions, Line Integrals (functions)	
	Quiz/Assignment 8	
3	5.1 (15.1) Vector Fields, Div and Curl	
5	*Easter Break*	
8	*Easter Break*	
10	5.2 (15.2) Line Integrals (vector fields)	*Quiz/Assignment 9*
12	5.3 (15.3) F.T.L.I./Green's Theorem	
15	5.3 (15.3) Green's Theorem	
17	*Review*	
18	**Exam III**	
19	5.4 (15.4) Surface Integrals	
22	5.4 (15.4) Surface Integrals	*Quiz/Assignment 10*
24	5.4 (15.4) Flux Integrals (+ Stokes')	
26	5.5 (15.5) Stokes' Theorem	
29	5.6 (15.6) Divergence Theorem	
May 1	*Review*	
3	*Study Day*	
May 8	Wed. 1:45 P.M., **Final Exam**	