Math 225: Calculus III **Fall 1992**

Syllabus

Aug. 26	11.2 Cartesian Coordinates & Vectors
28	11.3 Dot Product
31	11.3 Dot Product *Quiz Week*
Sep. 2	11.4 Cross Product
4	11.5 Lines
7	11.5 Planes *Quiz Week*
9	12.1 Vector Functions
11	12.1 Derivatives & Integrals of Vector Functions
14	12.2 Projectile Motion *Quiz Week*
16	12.3 Length
18	12.4 Tangents & Normals
21	12.4 Tangents & Normals
23	*Review*
24	**Exam I**
25	13.1 Fns. of 2 or More Variables
28	13.2 Limits & Continuity *Quiz Week*
30	13.3 Partial Derivatives
Oct. 2	13.4 Chain Rule
5	13.5 Directional Derivatives & Gradients *Quiz Week*
7	13.6 Tangent Planes & Normal Lines
9	13.8 Maxima, Minima & Saddle Points
12	13.8 Maxima, Minima & Saddle Points *Quiz Week*
14	13.9 Lagrange Multipliers
16	13.9 Lagrange Multipliers
17–25	**Midsemester Break**
26	14.1 Double Integrals
28	*Review*
29	**Exam II**
30	14.2 Areas, Moments, Centers
Nov. 2	14.3 Double Integrals in Polar Form *Quiz Week*
4	14.4 Triple Integrals
6	14.5 Mass & Moments in 3D
9	14.6 Triple Integrals in Cylindrical Coordinates *Quiz Week*
11	14.6 Triple Integrals in Spherical Coordinates
13	14.7 Substitutions in Multiple Integrals
16	14.* More Examples *Quiz Week*
18	15.1 Vector Fields
20	15.2 Line Integrals
23	15.2 Line Integrals
25	15.3 Green's Theorem
27	**Thanksgiving Break**
30	15.4 Surface Integrals (*Review*)
Dec. 1	**Exam III**
2	15.4 Surface Integrals
4	15.4 Flux Integrals (+ Stokes')
7	15.5 Stokes' Theorem *Quiz Week*
9	15.6 Divergence Theorem
11	*Review*
Mon. 14	**Final Exam**