Math 225: Calculus III **Fall 1991**

Syllabus

Aug. 28	11.2 Cartesian Coordinates & Vectors
30	11.3 Dot Product
Sep. 2	11.3 Dot Product *Quiz*
4	11.4 Cross Product
6	11.5 Lines
9	11.5 Planes *Quiz*
11	12.1 Vector Functions
13	12.1 Derivatives & Integrals of Vector Functions
16	12.2 Projectile Motion *Quiz*
18	12.3 Length
20	12.4 Tangents & Normals *Quiz*
23	12.4 Tangents & Normals
25	*Review*
26	**Exam I**
27	13.1 Fns. of 2 or More Variables
30	13.2 Limits & Continuity
Oct. 2	13.3 Partial Derivatives *Quiz*
4	13.4 Chain Rule
7	13.5 Directional Derivatives & Gradients *Quiz*
9	13.6 Tangent Planes & Normal Lines
11	13.8 Maxima, Minima & Saddle Points
14	13.8 Maxima, Minima & Saddle Points
16	13.9 Lagrange Multipliers *Quiz*
18	13.9 Lagrange Multipliers
19–27	**Midsemester Break**
28	14.1 Double Integrals *Quiz*
30	*Review*
31	**Exam II**
Nov. 1	14.2 Areas, Moments, Centers
4	14.3 Double Integrals in Polar Form
6	14.4 Triple Integrals *Quiz*
8	14.5 Mass & Moments in 3D
11	14.6 Triple Integrals in Cylindrical Coordinates
13	14.6 Triple Integrals in Spherical Coordinates
15	14.7 Substitutions in Multiple Integrals *Quiz*
18	14.* More Examples
20	15.1 Vector Fields
22	15.2 Line Integrals *Quiz*
25	15.2 Line Integrals
27	15.3 Green's Theorem *Quiz*
29	**Thanksgiving**
Dec. 2	15.4 Surface Integrals
4	15.4 Surface Integrals
5	**Exam III**
6	15.4 Flux Integrals (+ Stokes')
9	15.5 Stokes' Theorem *Quiz*
11	15.6 Divergence Theorem
13	*Review*
19	**Final Exam**