Math 32A: Tentative Course Syllabus

Lecture	Sections	Topic
1	13.1	Three Dimensional Coordinate Systems
2	13.2	Vectors
3	13.3	Dot Product
4	13.4	Cross Product
5	13.5	Equations of Lines and Planes
6	11.1	Curves defined by parametric equations
7	14.1	Vector Functions
8	14.2	Derivatives and Integrals of Vector Functions
9	14.3	Arc-length and curvature
10	14.4	Motion in space (Kepler's Law)
11	15.1	Functions of several variables
12	13.6	Cylinders and quadric surfaces
13	15.2	Limits and Continuity
14	15.2	Limits and Continuity
15	15.3	Partial Derivatives
16	15.3	Partial Derivatives
17	15.4	Tangent Planes and Linear Approximation
18	15.4	Tangent Planes and Linear Approximation
19	15.5	Chain Rule
20	15.5	Chain Rule
21	15.6	Directional Derivatives and the Gradient Vector
22	15.6	Directional Derivatives and the Gradient Vector
23	15.7	Maximum and Minimum Values
24	15.7	Maximum and Minimum Values
25	15.8	Lagrange Multipliers
26	15.8	Lagrange Multipliers