MA 213 – Honors, Tentative Calendar   *Fall 2016*
Sections 17 and 18

Date	Section	Topic
		Vector Geometry
W 8/24	§12.1-12.2	Vectors in the plane and in space
F 8/26	§12.3	The dot product and the angle between two vectors
M 8/29	§12.4	The cross product
W 8/31	§12.5	Planes (and lines) in three-space
F 9/2	§12.6, §11.5	Quadric surfaces (review conic sections in §11.5)
M 9/5	§12.6	Labor Day
W 9/7	§11.3-11.4	Review of polar coordinates
F 9/9	§12.7	Cylindrical and spherical coordinates
M 9/12	§13.1-13.2	Vector-valued functions
W 9/14	§13.2	Calculus of vector-valued functions (continued)
F 9/16	§13.3	Arc length and speed
M 9/19		Review
W 9/21		**Exam I**
		Differentiation in Several Variables
F 9/23	§13.4	Curvature
M 9/26	§13.5	Motion in space
W 9/28	§14.1	Functions in more than one variable
F 9/30	§14.2	Limits and continuity in several variables
M 10/3	§14.3	Partial derivatives
W 10/5	§14.4	Differentiability and tangent planes
F 10/7	§14.5	The gradient and directional derivatives
M 10/10	§14.6	The chain rule
W 10/12	§14.7	Optimization in several variables
F 10/14	§14.8	Lagrange multipliers
M 10/17		Review
W 10/19		**Exam II**
		Multiple Integration
F 10/21	§15.1	Integration in two variables
M 10/24		(Continued)
W10/26	§15.2	Double integrals over more general regions
F 10/28	§15.3	Triple integrals
M 10/30		(Continued)
W 11/2	§15.4, §15.6	Integration in other coordinates
F 11/4		(Continued)
M 11/7	§15.5	Applications of multiple integrals
W 11/9		Review
F 11/11		**Exam III**

		Line and surface integrals
M 11/14	§16.1, 16.2	Vector fields, Line integrals
W 11/16	§16.2	(Continued)
F 11/18	§16.3	Conservative vector fields
M 11/21	§17.1	Green's theorem
W 11/23		Thanksgiving Break
M 11/28	§16.4	Surface integrals
W 11/30	§16.5	Vector surface integrals
F 12/2	§17.2	Stokes' theorem
M 12/5	§17.3	Divergence theorem
W 12/7		Review
F 12/9		Review
W 12/14		**Final exam 10:30-12:30**