MA 213 Honors Spring 2014 Calendar of Events

	Lecture *Recitation*	Class activity	Due Dates	Textbook Sections
Week 1	Wed, 15-Jan	Vectors, parametric eqn of lines in R^2 & R^3		Rogawski: 12.1 & 12.2
	Thurs, 16-Jan	*Worksheet #1: Vectors, parametric eqns*		
	Fri, 17-Jan	Dot product, Law of Cosines	WW 01	Rogawski: 12.3
Week 2	Mon, 20-Jan	Martin Luther King Day		
	Tues, 21-Jan	*Worksheet #2: Dot products*		
	Wed, 22-Jan	Matrices and determinants		Handout
	Thurs, 23-Jan	*Worksheet #3: Cross products*	WW 02	
	Fri, 24-Jan	Cross product, planes in R^3		Rogawski: 12.4 & 12.5
Week 3	Mon, 27-Jan	Quadric surfaces		Rogawski: 12.6
	Tues, 28-Jan	*Worksheet #4: Planes in R^3*		
	Wed, 29-Jan	Cylindrical & Spherical Coordinates		Rogawski: 12.7
	Thurs, 30-Jan	*Worksheet #5: Cylindrical & spherical*	WW 03	
	Fri, 31-Jan	Plane curves & space curves		Rogawski: 13.1
Week 4	Mon, 03-Feb	The derivative as tangent vector		Rogawski: 13.2
	Tues, 04-Feb	*Worksheet #6: Tangent vectors to curves*		
	Wed, 05-Feb	Arc length and speed		Rogawski: 13.3
	Thurs, 06-Feb	*Worksheet #7: Arc length and speed*	WW 04	
	Fri, 07-Feb	Parameterization by arc length		Handout
Week 5	Mon, 10-Feb	Review for Exam 01		
	Tues, 11-Feb	*Review*		
	***** Tues, 11-Feb, Exam 01 (5:00 – 7:00 PM) TBA *****			
	Wed, 12-Feb	Curvature and torsion		Handout
	Thurs, 13-Feb	*Worksheet #8: Curvature & torsion*	WW 05	
	Fri, 14-Feb	Level curves & contour maps		Rogawski: 14.1
Week 6	Mon, 17-Feb	Limits & continuity		Rogawski: 14.2
	Tues, 18-Feb	*Worksheet #5: Limits*		
	Wed, 19-Feb	NO CLASS		
	Thurs, 20-Feb	NO CLASS		
	Fri, 21-Feb	NO CLASS		
Week 7	Mon, 24-Feb	NO CLASS		
	Tues, 25-Feb	NO CLASS		
	Wed, 26-Feb	Partial derivatives		Rogawski: 14.3
	Thurs, 27-Feb	*Worksheet #06: Partial derivatives*		
	Fri, 28-Feb	Differentiability and tangent plane	WW 06	Rogawski: 14.4
Week 8	Mon, 03-Mar	Gradient, directional derivative		Rogawski: 14.5
	Tues, 04-Mar	*Worksheet #07: Gradient & dir. derive.*		
	Wed, 05-Mar	Chain Rule		Rogawski: 14.6
	Thurs, 06-Mar	*Worksheet #08: Chain Rule*		
	Fri, 07-Mar	Optimization	WW 07	Rogawski 14.7
Week 9	Mon, 10-Mar	Review for Exam 02		
	Tues, 11-Mar	*Review*		
	***** Tues, 11-Mar, Exam 02 (5:00 – 7:00 PM) TBA *****			
	Wed, 12-Mar	Constrained extrema		Rogawski: 14.8
	Thurs, 13-Mar	*Worksheet #09: Optimization*		
	Fri, 14-Mar	Implicit Function Theorem	WW 08	Handout
	Mon, 17-Mar	***** SEMESTER BREAK *****		
	Tues, 18-Mar			
	Wed, 19-Mar			
	Thurs, 20-Mar			
	Fri, 21-Mar			
Week 11	Mon, 24-Mar	Double integrals		Rogawski: 15.1 & 15.2
	Tues, 25-Mar	*Worksheet #10: Double integrals*		
	Wed, 26-Mar	Triple integrals		Rogawski: 15.3
	Thurs, 27-Mar	*Worksheet #11: Triple integrals*		
	Fri, 28-Mar	Integration in other coordinate systems	WW 09	Rogawski: 15.4

Week 12	Mon, 31-Mar	Applications		
	Tues, 01-Apr	*Worksheet #12: More integration*		
	Wed, 02-Apr	Change of variables, Jacobian		Rogawski: 15.6
	Thurs, 03-Apr	*Worksheet #13: Jacobian*		
	Fri, 04-Apr	Vector fields	WW 10	Rogawski: 16.1
Week 13	Mon,07-Apr	Path integrals		Rogawski: 16.2
	Tues, 08-Apr	*Worksheet #14: Path integrals*		
	Wed, 09-Apr	Line integrals		Rogawski: 16.2
	Thurs, 10-Apr	*Worksheet #15: Line integrals*		
	Fri, 11-Apr	Parameterized surfaces	WW 11	Rogawski: 16.4
Week 14	Mon, 14-Apr	Review for Exam 03		
	Tues, 15-Apr	*Review*		
	***** **Tues, 15-Apr, Exam 3 (5:00 – 7:00 PM) TBA** *****			
	Wed, 16-Apr	Surface integrals of vector fields		Rogawski: 16.5
	Thurs, 17-Apr	*Worksheet #16: Parameterized surfaces*		
	Fri, 18-Apr	Flux and magnetic fields	WW 12	Handout
Week 15	Mon,21-Apr	Green's Theorem		Rogawski: 17.1
	Tues, 22-Apr	*Worksheet #17: Green's Theorem*		
	Wed, 23-Apr	Div, grad, curl and all that	WW 13	Hand out
	Thurs, 24-Apr	*Worksheet #18: Div, grad, curl*		
	Fri, 25-Apr	Gauss' divergence theorem		Rogawski: 17.3
Week 16	Mon, 28-Apr	Stokes' theorem		Rogawski: 17.2
	Tues, 29-Apr	*Worksheet #19: Divergence & Stokes' thms*	WW 14	
	Wed, 30-Apr	Stokes' theorem		Rogawski: 17.2
	Thurs, 01-May	*Worksheet #20: Review*		
	Fri, 02-May	Review for Exam 04	WW 15	
	***** **Mon, 05-May, Exam 4 (8:30 – 10:30 PM) TBA** *****			