

MA 114 017–020 Spring 2013 Calendar of Events

	Lecture <i>Recitation</i>	Class activity	Due Dates	Textbook Exercises
Week 1	Wed, 09-Jan	Sequences, limits, induction		10.1
	<i>Thur, 10-Jan</i>	<i>Worksheet #1: Review of differentiation and integration</i>		
	Fri, 11-Jan	Recursive sequences	WW 01	10.1
Week 2	Mon, 14-Jan	Hyperbolic functions		Handouts
	<i>Tues, 15-Jan</i>	<i>Worksheet #2: Sequences and induction</i>		
	Wed, 16-Jan	The logarithm		Handouts
	<i>Thurs, 17-Jan</i>	<i>Worksheet #3: Hyperbolic functions</i>	WW 02	
	Fri, 18-Jan	Integration by Parts		7.1
Week 3	Mon, 21-Jan	Martin Luther King Day		
	<i>Tues, 22-Jan</i>	<i>Worksheet #4: Integration by parts</i>		
	Wed, 23-Jan	Trigonometric Integrals		7.2
	<i>Thurs, 24-Jan</i>	<i>Worksheet #5: Trigonometric integrals</i>	WW 03	
	Fri, 25-Jan	Trig and hyperbolic trig substitutions		7.3 7.4
Week 4	Mon, 28-Jan	Partial fractions		7.5
	<i>Tues, 29-Jan</i>	<i>Worksheet #6: More integrals</i>		
	Wed, 30-Jan	Improper Integrals		7.6
	<i>Thurs, 31-Jan</i>	<i>Worksheet #7: More integrals</i>	WW 04	
	Fri, 01-Feb	Numerical Integration		7.8
Week 5	Mon, 04-Feb	Review		
	<i>Tues, 05-Feb</i>	<i>Review</i>		
	***** Tues,05-Feb Exam 1 (7:30 – 9:30 PM) TBA *****			
	Wed, 06-Feb	Volumes of solids		6.2
	<i>Thurs, 07-Feb</i>	<i>Worksheet #8: Numerical integration</i>	WW 05	
	Fri, 08-Feb	Volumes of solids of revolution		6.3
Week 6	Mon, 11-Feb	Method of cylindrical shells		6.4
	<i>Tues, 12-Feb</i>	<i>Worksheet #9: Volumes</i>		
	Wed, 13-Feb	Force, work and energy		6.5
	<i>Thurs, 14-Feb</i>	<i>Worksheet #10: Force, work, energy</i>	WW 06	
	Fri, 15-Feb	Arclength		8.1
Week 7	Mon, 18-Feb	Surface Area		8.1
	<i>Tues, 19-Feb</i>	<i>Worksheet #11: Arc length, surface area</i>		
	Wed, 20-Feb	Parametric equations		11.1
	<i>Thurs, 21-Feb</i>	<i>Worksheet #12: Parametric equations</i>	WW 07	
	Fri, 22-Feb	Calculus of parametric curves		11.4
Week 8	Mon, 25-Feb	Polar and other coordinates		11.3
	<i>Tues, 26-Feb</i>	<i>Worksheet #13: Calculus of parametric equations</i>		
	Wed, 27-Feb	Series and sigma notation, convergence, nth term test		10.2
	<i>Thurs, 28-Feb</i>	<i>Worksheet #14: Polar calculus</i>	WW 08	
	Fri, 01-Mar	Integral test, comparison, limit comparison, p -series		10.3
Week 9	Mon, 04-Mar	Review		
	<i>Tues, 05-Mar</i>	<i>Review</i>		
	***** Tues, 05-Mar Exam 2 (7:30 – 9:30 PM) TBA *****			
	Wed, 06-Mar	Alternating series, absolute and conditional convergence		10.4
	<i>Thurs, 07-Mar</i>	<i>Worksheet #15: Convergence tests</i>	WW 09	
	Fri, 08-Mar	Ratio and root tests		10.5
Week 10	Mon, 11-Mar	***** Semester Break *****		
	<i>Tues, 12-Mar</i>			
	Wed, 13-Mar			
	<i>Thurs, 14-Mar</i>			
	Fri, 15-Mar			
	Mon, 18-Mar	Second derivative test		Handout

	<i>Tues, 19-Mar</i>	<i>Worksheet #16: More convergence tests</i>		
	Wed, 20-Mar	Power series and properties		10.6
	<i>Thurs, 21-Mar</i>	<i>Worksheet #17: Power series</i>	WW 10	
	Fri, 22-Mar	Taylor series		10.7
Week 11	Mon, 25-Mar	Using Taylor series		Handout
	<i>Tues, 26-Mar</i>	<i>Worksheet #18: Taylor series</i>		
	Wed, 27-Mar	Fourier series I		Handout
	<i>Thurs, 28-Mar</i>	<i>Worksheet #19: More Taylor series</i>	WW 11	
	Fri, 29-Mar	Fourier series II		Handout
Week 12	Mon, 01-Apr	Sum of reciprocals of squares		Handout
	<i>Tues, 02-Apr</i>	<i>Worksheet #20: Fourier series</i>		
	Wed, 03-Apr	Separation of variables		9.1
	<i>Thurs, 04-Apr</i>	<i>Worksheet #21: Separation of variables</i>	WW 12	
	Fri, 05-Apr	More linear models: Newton's Law of Cooling, Falling Objects		9.2
Week 13	Mon, 08-Apr	Review		
	<i>Tues, 09-Apr</i>	<i>Review</i>		
	***** Tues, 09-Apr, Exam 3 (7:30 – 9:30 PM) TBA *****			
	Wed, 10-Apr	Series solutions		Handout
	<i>Thurs, 11-Apr</i>	<i>Worksheet #22: Series solutions</i>	WW 13	
	Fri, 12-Apr	Slopefields and Euler's Method		9.3
Week 14	Mon, 15-Apr	Logistic growth, escape velocity		9.4
	<i>Tues, 16-Apr</i>	<i>Worksheet #23: Slopefields, Euler's method</i>		
	Wed, 17-Apr	First order linear equations		9.5
	<i>Thurs, 18-Apr</i>	<i>Worksheet #24: First order linear equations</i>	WW 14	
	Fri, 19-Apr	Population models		Handout
Week 15	Mon, 22-Apr	Nonlinear systems: Predator-Prey		Handout
	<i>Tues, 23-Apr</i>	<i>Worksheet #25: Population models</i>		
	Wed, 24-Apr	Gamma function		Handout
	<i>Thurs, 25-Apr</i>	<i>Worksheet #26: Predator Prey models</i>	WW 15	
	Fri, 26-Apr	Volumes of n-balls		Handout
***** Wed, 01-May, Exam 4 (6:00 – 8:00 PM) TBA *****				