

MA 114 011 Fall 2012 Calendar of Events

	Lecture <i>Recitation</i>	Class activity	Due Dates	Optional Textbook Exercises	
Week 1	Wed, 22-Aug	Infinity, sequences, and limits		8.1–12,13,15,21,22,39,43,46,48	
	<i>Thur, 23-Aug</i>	<i>Pretest, Worksheet #1</i>			
	Fri, 24 Aug	Review of Continuity, Differentiation and Optimization	WW 01	2.4–9,10,36,52,54 p 248–16,34,35,61,78	
Week 2	Mon, 27-Aug	Optimization, implicit differentiation, related rates		4.1–20,25,40,42 4.6–8,16,21,30,32,57	
	<i>Tues, 28-Aug</i>	<i>Pretest, Worksheet #1</i>			
	Wed, 29-Aug	Riemann Sums		5.2–5,6,14,27,31,43,48	
	<i>Thurs, 30-Aug</i>	<i>Worksheet #2:Riemann Sums</i>	WW 02		
Week 3	Fri, 31-Aug	Definition and properties of definite integrals		5.3–23,27,54,65,69,70	
	Mon, 3-Sept	Labor Day			
	<i>Tues, 4-Sept</i>	<i>Worksheet #2:Riemann Sums</i>			
	Wed, 5-Sept	Fundamental Theorem of Calculus		5.4–2,12,14,18,20,28	
	<i>Thurs, 6-Sept</i>	<i>Worksheet #3:</i>	WW 03		
Week 4	Fri, 7-Sept	Integration by Substitution and by Parts		5.5–22,52,59,60,70 5.6–4,10,12,13,44	
	Mon, 10-Sept	Trig substitutions and integration of rational functions		5.7–4,6,11,12,14,18 G–11,18,24,26	
	<i>Tues, 11-Sept</i>				
	Wed, 12-Sept	Partial fractions		5.7–19a,22,24,26,34	
	<i>Thurs, 13-Sept</i>		WW 04		
Week 5	Fri, 14-Sept	Improper Integrals		5.10–6,8,13,20,41,49,55	
	Mon, 17-Sept	Review			
	<i>Tues, 18-Sept</i>	<i>Review</i>			
	***** Tues,18-Sept Exam 1 (5:00 – 7:00 PM) Your room will be assigned *****				
	Wed, 19-Sept	Volume and arc length		6.2– 6.4–23,25,29,32	
Week 6	<i>Thurs, 20-Sept</i>		WW 05		
	Fri, 21-Sept	Surface area and the dam problem		Handouts	
	Mon, 24-Sept	Mean Value Theorem, Average value		6.5–9,15,16,17,20	
	<i>Tues, 25-Sept</i>				
	Wed, 26-Sept	Force and work problems		6.6–3,7,11,15,19,25,27,40	
Week 7	<i>Thurs, 27-Sept</i>		WW 06		
	Fri, 28-Sept	Parametric curves		1.7–26,35,42,44	
	Mon, 1-Oct	Polar and other coordinates		H.1–48,50,56,64 H.2–5,6,17,22,24,28,36	
	<i>Tues, 2-Oct</i>				
	Wed, 3-Oct	Calculus of parametric curves, curvature		3.4–79,80,82,85,90 6.1–31,33,35,38,42	
Week 8	<i>Thurs, 4-Oct</i>		WW 07		
	Fri, 5-Oct	Series and sigma notation		8.2–10,14,16,18,46,50,57,59	
	Mon, 8-Oct	Convergence, nth term test, integral test		8.3–2,6,8,31	
	<i>Tues, 9-Oct</i>				
	Wed, 10-Oct	p -series, alternating series		8.3–13,14,34 8.4–3,4,6,8,9,13	
Week 9	<i>Thurs, 11-Oct</i>		WW 08		
	Fri, 12-Oct	Comparison, limit comparison, absolute convergence		8.3–10,12,18,19,22 8.4–21,22,23,24,31,34	
	Mon, 15-Oct	Review			
	<i>Tues, 16-Oct</i>	<i>Review</i>			
	***** Tues, 16-Oct Exam 2 (5:00 – 7:00 PM) Your room will be assigned *****				
Week 10	Wed, 17-Oct	Ratio test		8.4–35,36,37,40,42	
	<i>Thurs, 18-Oct</i>		WW 09		
	Fri, 19-Oct	Second derivative test		Handouts	
Week 10	Mon, 22-Oct	Power series and properties		8.5–4,7,10,22,24,27,31,33,35 8.6–4,8,10,11,32	
	<i>Tues, 23-Oct</i>				

	Wed, 24-Oct	Taylor series		8.7-3,6,10,15,18,22,24,28,34,55,56,57	
	<i>Thurs, 25-Oct</i>		WW 10		
	Fri, 26-Oct	Using Taylor series		8.8-4,5,6,14,19,20,31	
Week 11	Mon, 29-Oct	Fourier series I		Handouts	
	<i>Tues, 30-Oct</i>				
	Wed, 31-Oct	Fourier series II		Handouts	
	<i>Thurs, 1-Nov</i>		WW 11		
	Fri, 2-Nov	Differential equations and growth/decay problems		7.1-2,5,9,11,12	
Week 12	Mon, 5-Nov	Separation of variables, linear models		7.3-2,3,4,8,10,12,21,22,34,42,44,46,51	
	<i>Tues, 6-Nov</i>				
	Wed, 7-Nov	Hyperbolic functions		Handouts	
	<i>Thurs, 8-Nov</i>		WW 12		
Week 13	Fri, 9-Nov	Inverse hyperbolic functions		Handouts	
	Mon, 12-Nov	Review			
	<i>Tues, 13-Nov</i>	<i>Review</i>			
	***** Tues, 13-Nov, Exam 3 (5:00 – 7:00 PM) Your room will be assigned *****				
	Wed, 14-Nov	More linear models: Newton's Law of Cooling, Falling Objects		Handouts	
	<i>Thurs, 15-Nov</i>		WW 13		
	Fri, 16-Nov	Series solutions		Handouts	
Week 14	Mon, 19-Nov	Logistic growth, escape velocity		7.5-3,4,8,10,15,17,19	
	<i>Tues, 20-Nov</i>				
Thanksgiving Break - Academic Holiday					
Week 15	Mon, 26-Nov	Slopefields and Euler's Method		7.2-21,22,24,27	
	<i>Tues, 27-Nov</i>				
	Wed, 28-Nov	Nonlinear systems: Predator-Prey		7.6-1,2,4,10,11	
	<i>Thurs, 29-Nov</i>		WW 14		
	Fri, 30-Nov	Nonlinear Systems: SIR		Handouts	
Week 16	Mon, 3-Dec	Complex numbers		I-10,12,14,26,28,37,38,39,50	
	<i>Tues, 4-Dec</i>				
	Wed, 5-Dec	Oscillations		Handouts	
	<i>Thurs, 6-Dec</i>		WW 15		
	Fri, 7-Dec	Damped oscillations		Handouts	
***** Thur, 13-Dec, Exam 4 (8:30 – 10:30 PM) Your room will be assigned *****					