

MA 114 Spring 2018 Schedule

Unit I: Techniques of Integration						
Day	Date	Reading	Topic	Quizzes	Webwork Due	Webwork Topic
W	22-Aug	7.1	Integration by parts			
R	23-Aug		Worksheet 01 - Integration by Parts			
F	24-Aug	7.2	Trig Integrals			
M	27-Aug	7.3	Trig Substitution		A1 at 11:58PM	Integration by Parts
T	28-Aug		Worksheet 02 - Special Trigonometric Integrals	Quiz 1 on Section 7.1		
	28-Aug		Last day to add a class			
W	29-Aug	7.4	Partial Fractions			
R	30-Aug		Worksheet 03 - Trigonometric Substitution			
F	31-Aug	7.4	Partial Fractions			
M	3-Sep		Labor Day-academic holiday			
T	4-Sep		Worksheet 04 - Integration by Partial Fractions			
W	5-Sep	7.7	Midpoint, Trapezoid, and Simpson Rules		A2 at 11:58 PM	Trig Integrals
R	6-Sep		Worksheet 05 - Numerical integration	Quiz 2 on Sections 7.2-7.3		
F	7-Sep	7.7	Simpson's Rule, Error Estimates		A3 at 11:58PM	Partial Fractions
M	10-Sep	7.8	Improper Integrals			
T	11-Sep		Worksheet 06 - Simpson's rule and improper integrals			
W	12-Sep	11.1	Sequences as functions from N to R		A4 at 11:58PM	Numerical Integration
	12-Sep		Last day to drop without a W			
R	13-Sep		Worksheet 07 - Sequences	Quiz 3 on sections 7.4, 7.7		
F	14-Sep	11.1	Sequences by recursion		A5 at 11:58 PM	Simpson's Rule, Improper integrals
M	17-Sep		Review for Exam 1			
M	17-Sep		Exam I Review Session, 6:00-7:30 PM, KAS 213			
T	18-Sep		Review Worksheet 08			
T	18-Sep	Exam 01, 5:00-7:00 PM	Covers sections 7.1-7.4, 7.7, 7.8, web homeworks A1-A5			

Unit II: Series						
Day	Date	Reading	Topic	Quizzes	Webwork Due	WW Topic
W	19-Sep	11.2	Series			
R	20-Sep		Worksheet 09 - Recursive sequences, series			
F	21-Sep	11.2	Series		A6 at 11:58 PM	Sequences
M	24-Sep	11.3	Integral Test		B1 at 11:58 PM	Recursive Sequences
T	25-Sep		Worksheet 10 - Series, Integral Test			
W	26-Sep	11.4	Comparison and Limit Comparison		B2 at 11:58 PM	Series
R	27-Sep		Worksheet 11 - Comparison and Limit Comparison Tests	Quiz 4 on sections 11.1-11.2		
F	28-Sep	11.5	Alternating Series		B3 at 11:58 PM	Integral Test
M	1-Oct	11.6	Absolute Convergence, Ratio and Root Tests		B4 at 11:58PM	Comparison tests
T	2-Oct		Worksheet 12 - Alternating series, absolute and conditional convergence			
W	3-Oct	11.7	Ratio and Root Tests, Strategies for Testing Series		B5 at 11:58PM	Absolute and conditional convergence
R	4-Oct		Worksheet 13 - Ratio and Root tests	Quiz 5 on sections 11.3-11.5		
F	5-Oct	11.8	Power Series		B6 at 11:58PM	Ratio and root tests
M	8-Oct	11.9	Representing functions as power series			
T	9-Oct		Worksheet 14 - Power series			
W	10-Oct	11.10	Taylor series		B7 at 11:58PM	Power series
R	11-Oct		Worksheet 15 - Taylor Series	Quiz 6 on 11.7-11.8		
F	12-Oct		Review for Exam 2		B8 at 11:58PM	Taylor and McLaurin Series
M	15-Oct		Review for Exam 2			
M	15-Oct		Exam 2 Review Session, 6:00-7:30 PM, KAS 213			
T	16-Oct		Review Worksheet 16			
T	16-Oct	Exam 2, 5:00-7:00 PM	Covers sections 11.1-11.10, web homeworks A6, B1-B8			

Unit III: Applications of Integration, Calculus with Parametric and Polar Coordinates							
Day	Date	Reading	Topic	Quizzes	Webwork Due	WW Topic	
W	17-Oct	6.5	Average value of a function				
R	18-Oct		Worksheet 17 - Average Value of a Function				
F	19-Oct	6.2	Volumes with known cross section		C1 at 11:58 PM	Average Values	
M	22-Oct	6.3	Volumes of revolution - disks and washer				
T	23-Oct		Worksheet 18 - Volumes I				
W	24-Oct	6.3	Volumes of revolution by shells		C2 at 11:58PM	Volumes I	
R	25-Oct		Worksheet 19 - Volumes II	Quiz 7 on sections 6.2 and 6.5			
F	26-Oct	8.1	Arc length		C3 at 11:58PM	Volumes II	
M	29-Oct	8.2	Surface area				
T	30-Oct		Worksheet 20 - Arc length and surface area				
W	31-Oct	8.3	Centers of mass; moments		C4 at 11:58PM	Arc length and surface area	
R	1-Nov		Worksheet 21 - Centers of mass and moments	Quiz 8 on sections 6.3, 8.1, 8.2			
F	2-Nov	10.1	Parametric equations		C5 at 11:58PM	Centers of mass and moments	
F	2-Nov		Last day to withdraw				
M	5-Nov	10.2	Calculus with parametric equations				
T	6-Nov		Worksheet 22 - Parametric equations				
W	7-Nov	10.3	Polar coordinates		C6 at 11:58PM	Parametric equations	
R	8-Nov		Worksheet 23 - Polar coordinates	Quiz 9 on sections 8.3, 10.1			
F	9-Nov		Review		C7 at 11:58PM	Calculus with parametric equations	
M	12-Nov		Review				
M	12-Nov		Exam 3 Review Session, 6:00-7:30 PM, KAS 213				
T	13-Nov		Review Worksheet 24				
T	13-Nov	Exam 03, 5:00-7:00 PM	Covers sections 6.2, 6.3, 6.5, 8.1-8.3, 10.1-10.2 (omit 10.3), web homeworks C1-C7				

Unit IV: Conic Sections, Differential Equations						
Day	Date	Reading	Topic	Quizzes	Webwork Due	WW Topic
W	14-Nov	10.4	Calculus with polar coordinates (arc length and area)			
R	15-Nov		Worksheet 25 - Calculus with polar coordinates			
F	16-Nov	10.5	Conic sections		D1 at 11:58PM	Polar coordinates
M	19-Nov	10.5	Conic sections		D2 at 11:58 PM	Calculus with polar coordinates
T	20-Nov		Worksheet 26 - Conic sections			
	21-24 Nov		Thanksgiving holiday-academic holiday			
M	26-Nov	9.1	Modeling with differential equations		D3 at 11:58PM	Conic sections
T	27-Nov		Worksheet 27 - Differential equations	Quiz 10 on 10.4, 10.5		
W	28-Nov	9.2	Direction fields		D4 at 11:58PM	Differential equations
	29-Nov					
F	30-Nov	9.3	Separable equations			
M	3-Dec		Review			
T	4-Dec		Worksheet 28 - Direction Fields, separable equations			
W	5-Dec		Review for Final		D5 at 11:58PM	Direction Fields
R	6-Dec		Review Worksheet 29			
F	7-Dec		Review for Final		D6 at 11:58PM	Separable equations
W	12-Dec		Final review session, 3.30-5.00 pm in CB 106			
R	13-Dec	Final exam, 6-8pm	Covers 6.2, 6.3, 6.5, 7.1-7.4, 7.7, 7.8, 8.1-8.3, 9.1-9.3, 10.1-10.5, 11.1-11.10 and all web homeworks including D1-D6			