

MA 114 Fall 2020 Schedule

Unit I: Techniques of Integration						
Day	Date	Reading	Topic	Quizzes	Webwork Due	Webwork Topic
Monday	17-Aug	7.1	Integration by parts			
Tuesday	18-Aug		Worksheet 01 - Integration by Parts			
Wednesday	19-Aug	7.2	Trig Integrals			
Thursday	20-Aug	7.3	Worksheet 02 - Special Trigonometric Integrals			
Friday	21-Aug		Trig Substitution		A1 at 11:58PM	Integration by Parts
Friday	21-Aug		Last day to add a class			
Monday	24-Aug	7.4	Partial Fractions		A2 at 11:58 PM	Trig Integrals
Tuesday	25-Aug		Worksheet 03 - Trigonometric Substitution			
Wednesday	26-Aug	7.4	Partial Fractions			
Thursday	27-Aug		Worksheet 04 - Integration by Partial Fractions	Quiz 1 on Sections 7.1-7.3		
Friday	28-Aug	7.7	Midpoint, Trapezoid, and Simpson Rules		A3 at 11:58PM	Partial Fractions
Monday	31-Aug	7.7	Simpson's Rule, Error Estimates			
Tuesday	1-Sep		Worksheet 05 - Numerical integration			
Wednesday	2-Sep	7.8	Improper Integrals		A4 at 11:58PM	Numerical Integration
Thursday	3-Sep		Worksheet 06 - Simpson's rule and improper integrals	Quiz 2 on sections 7.4, 7.7		
Friday	4-Sep	11.1	Sequences as functions from N to R		A5 at 11:58 PM	Simpson's Rule, Improper integrals
Monday	7-Sep	11.1	Sequences by recursion			
Tuesday	8-Sep		Worksheet 07 - Sequences			
Tuesday	8-Sep		Last day to drop without a W			
Wednesday	9-Sep	11.2	Series		A6 at 11:58 PM	Sequences
Thursday	10-Sep		Worksheet 09 - Recursive sequences, series	Quiz 3 on sections 7.8, 11.1		
Friday	11-Sep	11.2	Series		B1 at 11:58 PM	Recursive Sequences
Monday	14-Sep		Review for Exam 1			
Tuesday	15-Sep		Review Worksheet 08		B2 at 11:58 PM	Series
Tuesday	15-Sep	Exam 01, 5:00-7:00 PM	Covers sections 7.1-7.4, 7.7, 7.8, 11.1-11.2 web homeworks A1-A5, B1-B2			
Unit II: Series						
Day	Date	Reading	Topic	Quizzes	Webwork Due	WW Topic
Wednesday	16-Sep	11.3	Integral Test			
Thursday	17-Sep		Worksheet 10 - Series, Integral Test			
Friday	18-Sep	11.4	Comparison and Limit Comparison		B3 at 11:58 PM	Integral Test
Monday	21-Sep	11.5	Alternating Series			
Tuesday	22-Sep		Worksheet 11 - Comparison and Limit Comparison Tests			
Wednesday	23-Sep	11.6	Absolute Convergence, Ratio and Root Tests		B4 at 11:58PM	Comparison tests
Thursday	24-Sep		Worksheet 12 - Alternating series, absolute and conditional convergence	Quiz 4 on sections 11.3-11.5		
Friday	25-Sep	11.7	Ratio and Root Tests, Strategies for Testing Series		B5 at 11:58PM	Absolute and conditional convergence
Monday	28-Sep	11.8	Power Series			
Tuesday	29-Sep		Worksheet 13 - Ratio and Root tests			
Wednesday	30-Sep	11.9	Representing functions as power series		B6 at 11:58PM	Ratio and root tests
Thursday	1-Oct		Worksheet 14 - Power series	Quiz 5 on 11.7-11.8		
Friday	2-Oct	11.10	Taylor series		B7 at 11:58PM	Power series
Monday	5-Oct	6.5	Average value of a function			
Tuesday	6-Oct		Worksheet 15 - Taylor Series			
Wednesday	7-Oct	6.2	Volumes with known cross section		B8 at 11:58PM	Taylor and McLaurin Series
Thursday	8-Oct		Worksheet 17 - Average Value of a Function	Quiz 6 on sections 11.9-11.10		
Friday	9-Oct		Review for Exam 2		C1 at 11:58 PM	Average Values
Monday	12-Oct		Review for Exam 2			
Tuesday	13-Oct		Review Worksheet 16			
Tuesday	13-Oct	Exam 2, 5:00-7:00 PM	Covers sections 11.3-11.10, 6.5, 6.2 web homeworks B3-B8, C1			
Unit III: Applications of Integration, Calculus with Parametric and Polar Coordinates						
Day	Date	Reading	Topic	Quizzes	Webwork Due	WW Topic

Wednesday	14-Oct	6.3	Volumes of revolution - disks and washer				
Thursday	15-Oct		Worksheet 18 - Volumes I				
Friday	16-Oct	6.3	Volumes of revolution by shells		C2 at 11:58PM	Volumes I	
Monday	19-Oct	8.1	Arc length				
Tuesday	20-Oct		Worksheet 19 - Volumes II				
Wednesday	21-Oct	8.2	Surface area		C3 at 11:58PM	Volumes II	
Thursday	22-Oct		Worksheet 20 - Arc length and surface area	Quiz 7 on sections 6.3, 8.1, 8.2			
Friday	23-Oct	8.3	Centers of mass; moments		C4 at 11:58PM	Arc length and surface area	
Monday	26-Oct		Last day to withdraw				
Monday	26-Oct	10.1	Parametric equations				
Tuesday	27-Oct		Worksheet 21 - Centers of mass and moments				
Wednesday	28-Oct	10.2	Calculus with parametric equations		C5 at 11:58PM	Centers of mass and moments	
Thursday	29-Oct		Worksheet 22 - Parametric equations	Quiz 8 on sections 8.3, 10.1			
Friday	30-Oct	10.3	Polar coordinates		C6 at 11:58PM	Parametric equations	
Monday	2-Nov	10.4	Calculus with polar coordinates (arc length and area)		C7 at 11:58PM	Calculus with parametric equations	
Tuesday	3-Nov		Election Day - Academic Holiday				
Wednesday	4-Nov	10.5	Conic sections		D1 at 11:58PM	Polar coordinates	
Thursday	5-Nov		Worksheet 23 - Polar coordinates/Worksheet 25 - Calculus with polar coordinates	Quiz 9 on 10.2-10.4			
Friday	6-Nov		Review		D2 at 11:58 PM	Calculus with polar coordinates	
Monday	9-Nov		Review				
Tuesday	10-Nov		Review Worksheet 24				
Tuesday	10-Nov	Exam 03, 5:00-7:00 PM	Covers sections 6.3, 8.1-8.3, 10.1-10.5, web homeworks C2-C7, D1-D2				
Unit IV: Conic Sections, Differential Equations							
Day	Date	Reading	Topic	Quizzes	Webwork Due	WW Topic	
Wednesday	11-Nov	10.5	Conic sections				
Thursday	12-Nov		Worksheet 26 - Conic sections				
Friday	13-Nov	9.1	Modeling with differential equations		D3 at 11:58PM	Conic sections	
Monday	16-Nov	9.2	Direction fields				
Tuesday	17-Nov		Worksheet 27 - Differential equations				
Wednesday	18-Nov	9.3	Separable equations		D4 at 11:58PM	Differential equations	
Thursday	19-Nov		Worksheet 28 - Direction Fields, separable equations	Quiz 10 on 10.5, 9.1			
Friday	20-Nov		Review		D5 at 11:58PM	Direction Fields	
Monday	23-Nov		Review for Final				
Tuesday	24-Nov		Review Worksheet 29		D6 at 11:58PM	Separable equations	
Wednesday	25-Nov		Review for Final				
		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				