

MA 114 Spring 2019 Schedule

Unit I: Techniques of Integration						
Day	Date	Reading	Topic	Quizzes	Webwork Due	Webwork Topic
W	9-Jan	7.1	Integration by parts			
R	10-Jan		Worksheet 01 - Integration by Parts			
F	11-Jan	7.2	Trig Integrals			
M	14-Jan	7.3	Trig Substitution		A1 at 11:58PM	Integration by Parts
T	15-Jan		Worksheet 02 - Special Trigonometric Integrals	Quiz 1 on Section 7.1		
	15-Jan		Last day to add a class			
W	16-Jan	7.4	Partial Fractions			
R	17-Jan		Worksheet 03 – Trigonometric Substitution			
F	18-Jan	7.4	Partial Fractions			
M	21-Jan		Labor Day-academic holiday			
T	22-Jan		Worksheet 04 - Integration by Partial Fractions			
W	23-Jan	7.7	Midpoint, Trapezoid, and Simpson Rules		A2 at 11:58 PM	Trig Integrals
R	24-Jan		Worksheet 05 – Numerical integration	Quiz 2 on Sections 7.2-7.3		
F	25-Jan	7.7	Simpson's Rule, Error Estimates		A3 at 11:58PM	Partial Fractions
M	28-Jan	7.8	Improper Integrals			
T	29-Jan		Worksheet 06 – Simpson's rule and improper integrals			
W	30-Jan	11.1	Sequences as functions from N to R		A4 at 11:58PM	Numerical Integration
	30-Jan		Last day to drop without a W			
R	31-Jan		Worksheet 07 – Sequences	Quiz 3 on sections 7.4, 7.7		
F	1-Feb	11.1	Sequences by recursion		A5 at 11:58 PM	Simpson's Rule, Improper integrals
M	4-Feb		Review for Exam 1			
M	4-Feb		Exam I Review Session, 6:00-7:30 PM, BS 116			
T	5-Feb		Review Worksheet 08			
T	5-Feb	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	6-Feb	11.2	Series				
R	7-Feb		Worksheet 09 - Recursive sequences, series				
F	8-Feb	11.2	Series		A6 at 11:58 PM	Sequences	
M	11-Feb	11.3	Integral Test		B1 at 11:58 PM	Recursive Sequences	
T	12-Feb		Worksheet 10 - Series, Integral Test				
W	13-Feb	11.4	Comparison and Limit Comparison		B2 at 11:58 PM	Series	
R	14-Feb		Worksheet 11 - Comparison and Limit Comparison Tests	Quiz 4 on sections 11.1-11.2			
F	15-Feb	11.5	Alternating Series		B3 at 11:58 PM	Integral Test	
M	18-Feb	11.6	Absolute Convergence, Ratio and Root Tests		B4 at 11:58PM	Comparison tests	
T	19-Feb		Worksheet 12 - Alternating series, absolute and conditional convergence				
W	20-Feb	11.7	Ratio and Root Tests, Strategies for Testing Series		B5 at 11:58PM	Absolute and conditional convergence	
R	21-Feb		Worksheet 13 - Ratio and Root tests	Quiz 5 on sections 11.3-11.5			
F	22-Feb	11.8	Power Series		B6 at 11:58PM	Ratio and root tests	
M	25-Feb	11.9	Representing functions as power series				
T	26-Feb		Worksheet 14 - Power series				
W	27-Feb	11.10	Taylor series		B7 at 11:58PM	Power series	
R	28-Feb		Worksheet 15 - Taylor Series	Quiz 6 on 11.7-11.8			
F	1-Mar		Review for Exam 2		B8 at 11:58PM	Taylor and McLaurin Series	
M	4-Mar		Review for Exam 2				
M	4-Mar		Exam 2 Review Session, 6:00-7:30 PM, BS 116				
T	5-Mar		Review Worksheet 16				
T	5-Mar	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	6-Mar	6.5	Average value of a function				
R	7-Mar		Worksheet 17 - Average Value of a Function				
F	8-Mar	6.2	Volumes with known cross section		C1 at 11:58 PM	Average Values	
	11-15 Mar		Spring Break				
M	18-Mar	6.3	Volumes of revolution - disks and washer				
T	19-Mar		Worksheet 18 - Volumes I				
W	20-Mar	6.3	Volumes of revolution by shells		C2 at 11:58PM	Volumes I	
R	21-Mar		Worksheet 19 - Volumes II	Quiz 7 on sections 6.2 and 6.5			
F	22-Mar	8.1	Arc length		C3 at 11:58PM	Volumes II	
M	25-Mar	8.2	Surface area				
T	26-Mar		Worksheet 20 - Arc length and surface area				
W	27-Mar	8.3	Centers of mass; moments		C4 at 11:58PM	Arc length and surface area	
R	28-Mar		Worksheet 21 - Centers of mass and moments	Quiz 8 on sections 6.3, 8.1, 8.2			
F	29-Mar	10.1	Parametric equations		C5 at 11:58PM	Centers of mass and moments	
F	29-Mar		Last day to withdraw				
M	1-Apr	10.2	Calculus with parametric equations				
T	2-Apr		Worksheet 22 - Parametric equations				
W	3-Apr	10.3	Polar coordinates		C6 at 11:58PM	Parametric equations	
R	4-Apr		Worksheet 23 - Polar coordinates	Quiz 9 on sections 8.3, 10.1			
F	5-Apr		Review		C7 at 11:58PM	Calculus with parametric equations	
M	8-Apr		Review				
M	8-Apr		Exam 3 Review Session, 6:00-7:30 PM, CB 114				
T	9-Apr		Review Worksheet 24				
T	9-Apr	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	10-Apr	10.4	Calculus with polar coordinates (arc length and area)			
R	11-Apr		Worksheet 25 - Calculus with polar coordinates			
F	12-Apr	10.5	Conic sections		D1 at 11:58PM	Polar coordinates
M	15-Apr	10.5	Conic sections		D2 at 11:58 PM	Calculus with polar coordinates
T	16-Apr		Worksheet 26 - Conic sections			
W	17-Apr	9.1	Modeling with differential equations		D3 at 11:58PM	Conic sections
R	18-Apr		Worksheet 27 - Differential equations	Quiz 10 on 10.4, 10.5		
F	19-Apr	9.2	Direction fields		D4 at 11:58PM	Differential equations
M	22-Apr	9.3	Separable equations			
T	23-Apr		Worksheet 28 - Direction Fields, separable equations			
W	24-Apr		Review for Final		D5 at 11:58PM	Direction Fields
R	25-Apr		Review Worksheet 29			
F	26-Apr		Review for Final		D6 at 11:58PM	Separable equations
T	30-Apr	Final review session, 3.30-5.00 pm in KAS 213				
W	1-May	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			