MA 114 Spring 2018 Schedule

Unit I: Techniques of Integration

Day	Date	Reading	Topic	Quizzes	Webwork Due	Webwork Topic
Ν	10-Jan	7.1	Integration by parts			
3	11-Jan		Worksheet 01 - Integration by Parts			
F	12-Jan	7.2	Trig Integrals			
М	15-Jan		Holiday - Martin Luther King Birthday			
Т	16-Jan		Snow Day - No class			
W	17-Jan	7.3	Trig Substitution		A1 at 11:58PM	Integration by Parts
3	18-Jan		Worksheet 02 - Trig Integrals	Quiz 1 on Section 7.1		
=	19-Jan	7.4	Partial Fractions			
M	22-Jan	7.4	Partial Fractions			
Γ	23-Jan		Worksheet 03 - Trig Substitution			
N	24-Jan	7.7	Midpoint, Trapezoid, and Simpson Rules		A2 at 11:58 PM	Trig Integrals
3	25-Jan		Worksheet 04 - Integration by Partial Fractions	Quiz 2 on Sections 7.2-7.3		
F	26-Jan	7.7	Simpson's Rule, Error Estimates		A3 at 11:58PM	Partial Fractions
M	29-Jan	7.8	Improper Integrals			
Г	30-Jan		Worksheet 05 - Numerical Integration			
N	31-Jan	11.1	Sequences as functions from N to R		A4 at 11:58PM	Numerical Integration
3	1-Feb		Worksheet 06 - Simpson's Rule, Improper Integrals	Quiz 3 on sections 7.4, 7.7		, and the second
F	2-Feb	11.1	Sequences by recursion		A5 at 11:58 PM	Simpson's Rule, Improper integrals
М	5-Feb		Review for Exam 1			
М	5-Feb		Exam I Review Session, 6:00-8:00 PM, FB 200			
_	6-Feb		Review Worksheet 08			

T 6-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	7-Feb	11.2	Series			
3	8-Feb		Worksheet 09 (Revised) - Recursive sequences,			
			series			
F	9-Feb	11.2	Series		A6 at 11:58 PM	Sequences
М	12-Feb	11.3	Integral Test		B1 at 11:58 PM	Recursive Sequences
Т	13-Feb		Worksheet 10 - Series, Integral Test			
W	14-Feb	11.4	Comparison and Limit Comparison		B2 at 11:58 PM	Series
R	15-Feb		Worksheet 11 - Comparison and Limit Comparison Tests	Quiz 4 on sections 11.1-11.2		
F	16-Feb	11.5	Alternating Series		B3 at 11:58 PM	Integral Test
М	19-Feb	11.6	Absolute Convergence, Ratio and Root Tests		B4 at 11:58PM	Comparison tests
Т	20-Feb		Worksheet 12 - Alternating series, absolute and conditional convergence			
W	21-Feb	11.7	Ratio and Root Tests, Strategies for Testing Series		B5 at 11:58PM	Absolute and conditional convergence
R	22-Feb		Worksheet 13 - Ratio and Root tests	Quiz 5 on sections 11.3-11.5		
F	23-Feb	11.8	Power Series		B6 at 11:58PM	Ratio and root tests
М	26-Feb	11.9	Representing functions as power series			
T	27-Feb		Worksheet 14 - Power series			
W	28-Feb	11.10	Taylor series		B7 at 11:58PM	Power series
R	1-Mar		Worksheet 15 - Taylor Series	Quiz 6 on 11.7-11.8		
F	2-Mar		Review for Exam 2		B8 at 11:58PM	Taylor and McLaurin Series
М	5-Mar		Review for Exam 2			
М	5-Mar		Exam 2 Review Session, 6:00-8:00 PM, FB 200)		
Т	6-Mar		Review Worksheet 16			

Т	6-Mar	Exam 2, 5:00-7:00	Covers sections 11.1-11.10, web homeworks
		PM	B1-B8

Unit III: Applications of Integration, Calculus with Parametric and Polar Coordinates

Day	Date	Reading	Торіс	Quizzes	Webwork Due	WW Topic
W	7-Mar	6.5	Average value of a function			
R	8-Mar		Worksheet 17 - Average Value of a Function			
F	9-Mar	6.2	Volumes with known cross section		C1 at 11:58 PM	Average Values
			Spring Break March	n 12-14		
М	19-Mar	6.3	Volumes of revolution - disks and washer			
Т	20-Mar		Worksheet 18 - Volumes I			
W	21-Mar	6.3	Volumes of revolution by shells		C2 at 11:58PM	Volumes I
R	22-Mar		Worksheet 19 - Volumes II	Quiz 7 on sections 6.2 and 6.5		
F	23-Mar	8.1	Arc length		C3 at 11:58PM	Volumes II
М	26-Mar	8.2	Surface area			
T	27-Mar		Worksheet 20 - Arc length and surface area			
W	28-Mar	8.3	Centers of mass; moments		C4 at 11:58PM	Arc length and surface area
R	29-Mar		Worksheet 21 - Centers of mass and moments	Quiz 8 on sections 6.3, 8.1, 8.2		
F	30-Mar	10.1	Parametric equations		C5 at 11:58PM	Centers of mass and moments
М	2-Apr	10.1	Calculus with parametric equations			
Т	3-Apr		Worksheet 22 - Parametric equations			
W	4-Apr	10.2	Polar coordinates		C6 at 11:58PM	Parametric equations
R	5-Apr		Worksheet 23 - Polar coordinates	Quiz 9 on sections 8.3, 10.1		
F	6-Apr		Review		C7 at 11:58PM	Calculus with parametric equations
М	9-Apr		Review			
М	9-Apr		Exam 3 Review Session, 6:00-8:00 PM, FB 2	00		
Т	10-Apr		Review Worksheet 24			

Т	10-A	pr Exam 03, 5:00-	Covers sections 6.2, 6.3, 6.5, 8.1-8.3, 10.1
		7:00 PM	(omit 10.2 and 10.4), web homeworks C1-C7

Unit IV: Conic Sections, Differential Equations

Date	Reading	Topic	Quizzes	Webwork Due	WW Topic
11-Apr	10.4	Calculus with polar coordinates (arc length and area)			
12-Apr		Worksheet 25 - Calculus with polar coordinates			
13-Apr	10.5	Conic sections		D1 at 11:58PM	Polar coordinates
16-Apr	10.5	Conic sections		D2 at 11:58 PM	Calculus with polar
					coordinates
17-Apr		Worksheet 26 - Conic sections			
18-Apr	9.1	Modelling with differential equations		D3 at 11:58PM	Conic sections
19-Apr		Worksheet 27 - Differential equations	Quiz 10 on 10.4, 10.5		
20-Apr	9.2	Direction fields		D4 at 11:58PM	Differential equations
23-Apr	9.3	Separable equations			
24-Apr		Worksheet 28 - Direction Fields, separable equations			
25-Apr		Review for Final		D5 at 11:58PM	Direction Fields
26-Apr		Review Worksheet 29			
27-Apr		Review for Final		D6 at 11:58PM	Separable equations
1-May		Final Exam Review Session, 6:00-8:00 PM,			
		Memorial Hall			
2-May	Final Exam, 8:30-	Covers 6.2, 6.3, 6.5, 7.1-7.4, 7.7, 7.8, 8.1-8.3,			
	10:30 PM	9.1-9.3, 10.1-10.2, 10.4-10.5, 11.1-11.10 and			
		all web homeworks including D1-D6			
	11-Apr 12-Apr 13-Apr 16-Apr 17-Apr 18-Apr 19-Apr 20-Apr 23-Apr 24-Apr 25-Apr 27-Apr	11-Apr 10.4 12-Apr 10.5 13-Apr 10.5 16-Apr 10.5 17-Apr 18-Apr 9.1 19-Apr 20-Apr 9.2 23-Apr 9.3 24-Apr 25-Apr 27-Apr 27-Apr 27-Apr 27-Apr 27-Apr 2-May Final Exam, 8:30-	11-Apr 10.4 Calculus with polar coordinates (arc length and area) 12-Apr Worksheet 25 - Calculus with polar coordinates 13-Apr 10.5 Conic sections 16-Apr 10.5 Conic sections 17-Apr Worksheet 26 - Conic sections 18-Apr 9.1 Modelling with differential equations 19-Apr Worksheet 27 - Differential equations 20-Apr 9.2 Direction fields 23-Apr 9.3 Separable equations 24-Apr Worksheet 28 - Direction Fields, separable equations 25-Apr Review for Final 26-Apr Review Worksheet 29 27-Apr Review Final 1-May Final Exam, 8:30- 10:30 PM Covers 6.2, 6.3, 6.5, 7.1-7.4, 7.7, 7.8, 8.1-8.3, 9.1-9.3, 10.1-10.2, 10.4-10.5, 11.1-11.10 and	11-Apr 10.4 Calculus with polar coordinates (arc length and area) 12-Apr Worksheet 25 - Calculus with polar coordinates 13-Apr 10.5 Conic sections 16-Apr 10.5 Conic sections 17-Apr Worksheet 26 - Conic sections 18-Apr 9.1 Modelling with differential equations 19-Apr Worksheet 27 - Differential equations Quiz 10 on 10.4, 10.5 20-Apr 9.2 Direction fields 23-Apr 9.3 Separable equations 24-Apr Worksheet 28 - Direction Fields, separable equations 25-Apr Review for Final 26-Apr Review Worksheet 29 27-Apr Review for Final 1-May Final Exam Review Session, 6:00-8:00 PM, Memorial Hall 2-May Final Exam, 8:30- 10:30 PM 10:30 PM Covers 6.2, 6.3, 6.5, 7.1-7.4, 7.7, 7.8, 8.1-8.3, 9.1-9.3, 10.1-10.2, 10.4-10.5, 11.1-11.10 and	11-Apr 10.4 Calculus with polar coordinates (arc length and area) 12-Apr Worksheet 25 - Calculus with polar coordinates 13-Apr 10.5 Conic sections 16-Apr 10.5 Conic sections 17-Apr Worksheet 26 - Conic sections 18-Apr 9.1 Modelling with differential equations 19-Apr Worksheet 27 - Differential equations Quiz 10 on 10.4, 10.5 20-Apr 9.2 Direction fields D4 at 11:58PM 23-Apr 9.3 Separable equations D4 at 11:58PM 24-Apr Worksheet 28 - Direction Fields, separable equations D5 at 11:58PM 25-Apr Review for Final D5 at 11:58PM 26-Apr Review Worksheet 29 D6 at 11:58PM 1-May Final Exam Review Session, 6:00-8:00 PM, Memorial Hall 2-May Final Exam, 8:30- 10:30 PM Covers 6.2, 6.3, 6.5, 7.1-7.4, 7.7, 7.8, 8.1-8.3, 9.1-9.3, 10.1-10.2, 10.4-10.5, 11.1-11.10 and