

MA 114 Spring 2022 Schedule

Unit I: Techniques of Integration

Day	Date	Reading	Topic	Quizzes	Webwork Due	WeBWork Topic
Monday	10-Jan	??	Review of topics from Calculus I			
Tuesday	11-Jan		Worksheet 00 – Review of Calculus I			
Wednesday	12-Jan	7.1	Integration by parts			
Thursday	13-Jan		Worksheet 01 – Integration by parts			
Friday	14-Jan	7.2	Trig Integrals Last day to add a class		A1 at 11:58PM	Integration by Parts
Monday	17-Jan		No class – MLK day			
Tuesday	18-Jan		Worksheet 02 - Special Trigonometric Integrals	Quiz 1 on Section 7.1		
Wednesday	19-Jan	7.3	Trig Substitution			
Thursday	20-Jan		Worksheet 03 – Trigonometric Substitution			
Friday	21-Jan	7.4	Partial Fractions		A2 at 11:58 PM	Trig Integrals
Monday	24-Jan	7.4	Partial Fractions			
Tuesday	25-Jan		Worksheet 04 - Integration by Partial Fractions			
Wednesday	26-Jan	7.7	Midpoint, Trapezoid, and Simpson's Rules		A3 at 11:58PM	Partial Fractions
Thursday	27-Jan		Worksheet 05 – Numerical integration	Quiz 2 on Sections 7.2-7.3		
Friday	28-Jan	7.7	Simpson's Rule, Error Estimates Last day to drop without a W			

Monday	31-Jan	7.8	Improper Integrals		A4 at 11:58PM	Numerical Integration
Tuesday	1-Feb		Worksheet 06 – Simpson's rule			
Wednesday	2-Feb	11.1	Sequences			
Thursday	3-Feb		Worksheet 07 – Sequences	Quiz 3 on sections 7.4, 7.7		
Friday	4-Feb	11.1	Sequences by recursion		A5 at 11:58 PM	Simpson's Rule, Improper integrals
Monday	7-Feb		Review for Exam 1 Exam I Review Session, 4-5:30 PM, CB110			
Tuesday	8-Feb	Exam 1, 5:00-7:00 PM	Review Worksheet 08 Covers sections 7.1-7.4, 7.7, 7.8, WeBWork A1-A5			
<b>Unit II: Series</b>						
Day	Date	Reading	Topic	Quizzes	Webwork Due	WeBWork Topic
Wednesday	9-Feb	11.2	Series			
Thursday	10-Feb		Worksheet 09 - Recursive sequences, series			
Friday	11-Feb	11.2	Series		A6 at 11:58 PM	Sequences
Monday	14-Feb	11.3	Integral Test		B1 at 11:58 PM	Recursive Sequences
Tuesday	15-Feb		Worksheet 10 - Series, Integral Test			
Wednesday	16-Feb	11.4	Comparison and Limit Comparison		B2 at 11:58 PM	Series
Thursday	17-Feb		Worksheet 11 - Comparison and Limit Comparison Tests	Quiz 4 on sections 11.1-11.2		
Friday	18-Feb	11.5	Alternating Series		B3 at 11:58 PM	Integral Test
Monday	21-Feb	11.6	Absolute Convergence, Ratio and Root Tests		B4 at 11:58PM	Comparison tests
Tuesday	22-Feb		Worksheet 12 - Alternating series, absolute and conditional convergence			
Wednesday	23-Feb	11.7	Ratio and Root Tests, Strategies for Testing Series		B5 at 11:58PM	Absolute and conditional convergence

Thursday	24-Feb		Worksheet 13 - Ratio and Root tests	Quiz 5 on sections 11.3-11.5		
Friday	25-Feb	11.8	Power Series		B6 at 11:58PM	Ratio and root tests
Monday	28-Feb	11.9	Representing functions as power series			
Tuesday	1-Mar		Worksheet 14 - Power series			
Wednesday	2-Mar	11.10	Taylor series		B7 at 11:58PM	Power series
Thursday	3-Mar		Worksheet 15 - Taylor Series	Quiz 6 on sections 11.7-11.8		
Friday	4-Mar		Review for Exam 2		B8 at 11:58PM	Taylor and McLaurin Series
Monday	7-Mar		Review for Exam 2 Exam 2 Review Session, 4-5:30 PM, CB110			
Tuesday	8-Mar	Exam 2, 5:00-7:00 PM	Review Worksheet 16 Covers sections 11.1-11.10, WeBWork A6, B1-B8			
<b>Unit III: Applications of Integration, Calculus with Parametric and Polar Coordinates</b>						
Day	Date	Reading	Topic	Quizzes	Webwork Due	WeBWork Topic
Wednesday	9-Mar	6.5	Average value of a function			
Thursday	10-Mar		Worksheet 17 - Average Value of a Function			
Friday	11-Mar	6.2	Volumes with known cross section		C1 at 11:58 PM	Average Values
Monday	14-Mar		No Class – Spring Break			
Tuesday	15-Mar		No Class – Spring Break			
Wednesday	16-Mar		No Class – Spring Break			
Thursday	17-Mar		No Class – Spring Break			
Friday	18-Mar		No Class – Spring Break			
Monday	21-Mar	6.3	Volumes of revolution - disks and washer			

Tuesday	22-Mar		Worksheet 18 - Volumes I			
Wednesday	23-Mar	6.3	Volumes of revolution by shells		C2 at 11:58PM	Volumes I
Thursday	24-Mar		Worksheet 19 - Volumes II	Quiz 7 on sections 6.2, 6.3		
Friday	25-Mar	8.1	Arc length		C3 at 11:58PM	Volumes II
Monday	28-Mar	8.2	Surface area Last day to drop			
Tuesday	29-Mar		Worksheet 20 - Arc length and surface area			
Wednesday	30-Mar	8.3	Centers of mass; moments		C4 at 11:58PM	Arc length and surface area
Thursday	31-Mar		Worksheet 21 - Centers of mass and moments	Quiz 8 on sections 6.3, 8.1, 8.2		
Friday	1-Apr	10.1	Parametric Equations		C5 at 11:58PM	Centers of mass and moments
Monday	4-Apr	10.2	Calculus with parametric equations			
Tuesday	5-Apr		Worksheet 22 - Parametric equations			
Wednesday	6-Apr	10.3	Polar coordinates		C6 at 11:58PM	Parametric equations
Thursday	7-Apr		Worksheet 23 - Polar coordinates	Quiz 9 on sections 8.3, 10.1		
Friday	8-Apr		Review for Exam 3		C7 at 11:58PM	Calculus with parametric equations
Monday	11-Apr		Review for Exam 3 Exam 3 Review Session, 4-5:30 PM, CB110			
Tuesday	12-Apr	Exam 3, 5:00-7:00 PM	Review Worksheet 24 Covers sections 6.2, 6.3, 6.5, 8.1, 8.2, 10.1, 10.2, WeBWork C1-C7			
<b>Unit IV: Conic Sections, Differential Equations</b>						
Day	Date	Reading	Topic	Quizzes	Webwork Due	WeBWork Topic
Wednesday	13-Apr	10.4	Calculus with polar coordinates (arc length and area)			
Thursday	14-Apr		Worksheet 25 - Polar coordinates			

Friday	15-Apr	10.5	Conic sections		D1 at 11:58PM	Polar coordinates
Monday	18-Apr	10.5	Conic sections		D2 at 11:58 PM	Calculus with polar coordinates
Tuesday	19-Apr		Worksheet 26 – Conic sections			
Wednesday	20-Apr	9.1	Modeling with differential equations		D3 at 11:58PM	Conic sections
Thursday	21-Apr		Worksheet 27 - Differential equations	Quiz 10 on sections 10.4, 10.5		
Friday	22-Apr	9.2	Direction fields		D4 at 11:58PM	Differential equations
Monday	25-Apr	9.3	Separable Equations			
Tuesday	26-Apr		Worksheet 28 – Direction Fields, separable equations			
Wednesday	27-Apr		Review for Final		D5 at 11:58PM	Direction Fields
Thursday	28-Apr					
Friday	29-Apr					
Monday	2-May					
Tuesday	3-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 WeBWork including D1-D6			