MA 114 Fall 2019 Schedule

Unit I: Techniques of Integration

Day	Date	Reading	Topic	Quizzes	Webwork Due	Webwork Topic
Monday	26-Aug	7.1	Integration by parts			
Tuesday	27-Aug		Worksheet 01 - Integration by Parts			
Wednesday	28-Aug	7.2	Trig Integrals			
Thursday	29-Aug		Worksheet 02 - Special Trigonometric Integrals	Quiz 1 on Section 7.1		
Friday	30-Aug	7.3	Trig Substitution		A1 at 11:58PM	Integration by Parts
Friday	30-Aug		Last day to add a class			
Monday	2-Sep		Labor Day-academic holiday			
Tuesday	3-Sep		Worksheet 03 – Trigonometric Substitution			
Wednesday	4-Sep	7.4	Partial Fractions		A2 at 11:58 PM	Trig Integrals
Thursday	5-Sep		Worksheet 04 - Integration by Partial Fractions	Quiz 2 on Sections 7.2-7.3		
Friday	6-Sep	7.4	Partial Fractions			
Monday	9-Sep	7.7	Midpoint, Trapezoid, and Simpson Rules		A3 at 11:58PM	Partial Fractions
Tuesday	10-Sep		Worksheet 05 – Numerical integration			
Wednesday	11-Sep	7.7	Simpson's Rule, Error Estimates		A4 at 11:58PM	Numerical Integration
Thursday	12-Sep		Worksheet 06 – Simpson's rule and improper integrals	Quiz 3 on sections 7.4, 7.7		
Friday	13-Sep		Review for Exam 1			
Friday	13-Sep		Last day to drop without a W			
Monday	16-Sep		Review for Exam 1			
Monday	16-Sep		Exam I Review Session, 4-5:30 PM CB106			
Tuesday	17-Sep		Review Worksheet 08			
Tuesday	17-Sep	Exam 01, 5:00-7:00 PM	Covers sections 7.1-7.4, 7.7, web homeworks A1-A4			

Unit II: Series

Day	Date	Reading	Topic	Quizzes	Webwork Due	WW Topic
Wednesday	18-Sep	7.8	Improper Integrals			
Thursday	19-Sep		Worksheet 06 – Simpson's rule and improper integrals			
Friday	20-Sep	11.1	Sequences as functions from **N** to **R**		A5 at 11:58 PM	Simpson's Rule, Improper integrals
Monday	23-Sep	11.1	Sequences by recursion		A6 at 11:58 PM	Sequences
Tuesday	24-Sep		Worksheet 07 – Sequences			
Wednesday	25-Sep	11.2	Series		B1 at 11:58 PM	Recursive Sequences
Thursday	26-Sep		Worksheet 09 - Recursive sequences, series	Quiz 4 on sections 7.8, 11.1		
Friday	27-Sep	11.2	Series			
Monday	30-Sep	11.3	Integral Test		B2 at 11:58 PM	Series
Tuesday	1-Oct		Worksheet 10 - Series, Integral Test			
Wednesday	2-Oct	11.4	Comparison and Limit Comparison		B3 at 11:58 PM	Integral Test
Thursday	3-Oct		Worksheet 11 - Comparison and Limit Comparison Tests	Quiz 5 on sections 11.1-11.3		
Friday	4-Oct	11.5	Alternating Series		B4 at 11:58PM	Comparison tests
Monday	7-Oct	11.6	Absolute Convergence, Ratio and Root Tests			
Tuesday	8-Oct		Worksheet 12 - Alternating series, absolute and conditional convergence			
Wednesday	9-Oct	11.7	Ratio and Root Tests, Strategies for Testing Series		B5 at 11:58PM	Absolute and conditional convergence
Thursday	10-Oct		Worksheet 13 - Ratio and Root tests	Quiz 6 on sections 11.4-11.6		
Friday	11-Oct		Review for Exam 2		B6 at 11:58PM	Ratio and root tests
Monday	14-Oct		Review for Exam 2			
Monday	14-Oct		Exam 2 Review Session, 4-5:30 PM CB118			
Tuesday	15-Oct		Review Worksheet 16			
Tuesday	15-Oct	Exam 2, 5:00-7:00 PM	Covers sections 7.8, 11.1-11.7, web homeworks A5, A6, B1-B6			

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

Day	Date	Reading	Topic	Quizzes	Webwork Due	WW Topic
Wednesday	16-Oct	11.8	Power Series			
Thursday	*17-Oct*		*Worksheet 14 - Power series*			
Friday	18-Oct	11.9	Representing functions as power series		B7 at 11:58PM	Power series
Monday	21-Oct		Fall Break			
Tuesday	*22-Oct*		*Fall Break*			
Wednesday	23-Oct	11.10	Taylor series			
Thursday	*24-Oct*		*Worksheet 15 - Taylor Series*	*Quiz 7 on sections 11.7-11.9*		
Friday	25-Oct	6.5	Average value of a function		B8 at 11:58PM	Taylor and McLaurin Series
Monday	28-Oct	6.2	Volumes with known cross section			
Tuesday	*29-Oct*		*Worksheet 17 - Average Value of a Function*			
Wednesday	30-Oct	6.3	Volumes of revolution - disks and washer		C1 at 11:58 PM	Average Values
Thursday	*31-Oct*		*Worksheet 18 - Volumes I*	*Quiz 8 on sections 11.10, 6.5, 6.2*		
Friday	1-Nov	6.3	Volumes of revolution by shells			
Monday	4-Nov	8.1	Arc length		C2 at 11:58PM	Volumes I
Tuesday	*5-Nov*		*Worksheet 19 - Volumes II*			
Wednesday	6-Nov	8.2	Surface area		C3 at 11:58PM	Volumes II
Wednesday	6-Nov		Last day to withdraw			
Thursday	*7-Nov*		*Worksheet 20 - Arc length and surface area*	*Quiz 9 on sections 6.3, 8.1*		
Friday	8-Nov		Review		C4 at 11:58PM	Arc length and surface area
Monday	11-Nov		Review			
Monday	11-Nov		Exam 3 Review Session, 4-5:30 PM CB118			
Tuesday	*12-Nov*		*Review Worksheet 24*			
Tuesday	12-Nov	Exam 03, 5:00-7:00 PM	Covers sections 11.8-11.10, 6.2, 6.3, 6.5, 8.1-8.2 web homeworks B7, B8, C1-C4			

Unit IV: Conic Sections, Differential Equations

Day	Date	Reading	Topic	Quizzes	Webwork Due	WW Topic
Wednesday	13-Nov	8.3	Centers of mass; moments			
Thursday	*14-Nov*		*Worksheet 21 - Centers of mass and moments*			
Friday	15-Nov	10.1	Parametric equations		C5 at 11:58PM	Centers of mass and moments
Monday	18-Nov	10.2	Calculus with parametric equations		C6 at 11:58PM	Parametric equations
Tuesday	*19-Nov*		*Worksheet 22 - Parametric equations*			
Wednesday	20-Nov	10.3	Polar coordinates		C7 at 11:58PM	Calculus with parametric equations
Thursday	*21-Nov*		*Worksheet 23 - Polar coordinates*	*Quiz 10 on sections 8.3, 10.1, 10.2*		
Friday	22-Nov	10.4	Calculus with polar coordinates (arc length and area)		D1 at 11:58PM	Polar coordinates
Monday	25-Nov	10.5	Conic sections		D2 at 11:58 PM	Calculus with polar coordinates
Tuesday	*26-Nov*		*Worksheet 25 - Calculus with polar coordinates*			
Wednesday	27-Nov		Thanksgiving holiday-academic holiday			
Thursday	28-Nov		Thanksgiving holiday-academic holiday			
Friday	29-Nov		Thanksgiving holiday-academic holiday			
Monday	2-Dec	10.5	Conic sections			
Tuesday	*3-Dec*		*Worksheet 26 - Conic sections*			
Wednesday	4-Dec	9.1	Modeling with differential equations		D3 at 11:58PM	Conic sections
Thursday	*5-Dec*		*Worksheet 27 - Differential equations*			
Friday	6-Dec	9.2	Direction fields		D4 at 11:58PM	Differential equations
Monday	9-Dec	9.3	Separable equations		D5 at 11:58PM	Direction Fields
Tuesday	*10-Dec*		*Worksheet 28 - Direction Fields, separable equations*			
Wednesday	11-Dec		Review for Final		D6 at 11:58PM	Separable equations
Thursday	*12-Dec*		*Review Worksheet 29*			
Friday	13-Dec		Review for Final			
Wednesday	18-Dec		Final review session, 4-5:30 PM CB118			
Thursday	19-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			