

Course Calendar for Calculus II, MA 114, Spring 2020

Unit I: Techniques of Integration

Day	Date	Reading	Topic	Quizzes	Webwork Due	Webwork Topic
Wednesday	15-Jan	§7.1	Integration by parts			
Thursday	16-Jan		<i>Worksheet 01 - Integration by Parts</i>			
Friday	17-Jan	§7.2	Trig Integrals			Recommended day to complete A1
Monday	20-Jan		Martin Luther King-academic holiday			
Tuesday	21-Jan		<i>Worksheet 02 - Special Trigonometric Integrals ??</i>			
Wednesday	22-Jan	§7.3	Trig Substitution			
Wednesday	22-Jan		Last day to add a class			
Thursday	23-Jan		<i>Worksheet 03 – Trigonometric Substitution</i>	Quiz 1, §7.1	A1 at 11:58 pm	Integration by Parts
Friday	24-Jan	§7.4	Partial Fractions		A2 at 11:58 pm	Trig Integrals
Monday	27-Jan	§7.4	Partial Fractions			
Tuesday	28-Jan		<i>Worksheet 04 - Integration by Partial Fractions</i>			
Wednesday	29-Jan	§7.7	Midpoint, Trapezoid, and Simpson Rules		A3 at 11:58 pm	Partial Fractions
Thursday	30-Jan		<i>Worksheet 05 – Numerical integration</i>	Quiz 2, §§7.2-7.3		
Friday	31-Jan	§7.7	Simpson's Rule, Error Estimates		A4 at 11:58 pm	Numerical Integration
Monday	3-Feb	§7.8	Improper Integrals			
Tuesday	4-Feb		<i>Worksheet 06 – Simpson's rule and improper integrals</i>			
Wednesday	5-Feb	§11.1	Sequences as functions from \mathbb{N} to \mathbb{R}			
Wednesday	5-Feb		Last day to drop without a W			
Thursday	6-Feb		<i>Worksheet 07 – Sequences</i>	Quiz 3, §§7.4, 7.7		
Friday	7-Feb	§11.1, Handout	Sequences by recursion		A5 at 11:58 PM	Simpson's Rule, Improper integrals
Monday	10-Feb		Exam 1 Review			
Monday	10-Feb		Exam 1 Review Session, 4-5:30 pm, KAS 213			
Tuesday	11-Feb		<i>Review Worksheet 08</i>			
Tuesday	11-Feb	Exam 1, 5-7pm	Covers §§7.1-7.4,7.7,7.8, WeBWorkKs A1-A5.			

Unit II: Series

Day	Date	Reading	Topic	Quizzes	Webwork Due	WW Topic
Wednesday	12-Feb	§11.2	Series			
Thursday	13-Feb		<i>Worksheet 09 - Recursive sequences, series</i>			
Friday	14-Feb	§11.2	Series		A6 at 11:58 pm	Sequences
Monday	17-Feb	§11.3	Integral Test		B1 at 11:58 pm	Recursive Sequences
Tuesday	18-Feb		<i>Worksheet 10 - Series, Integral Test</i>			
Wednesday	19-Feb	§11.4	Comparison and Limit Comparison		B2 at 11:58 pm	Series
Thursday	20-Feb		<i>Worksheet 11 - Comparison and Limit Comparison Tests</i>	Quiz 4, §§11.1-11.2		
Friday	21-Feb	§11.5	Alternating Series		B3 at 11:58 pm	Integral Test
Monday	24-Feb	§11.6	Absolute Convergence, Ratio and Root Tests		B4 at 11:58 pm	Comparison tests
Tuesday	25-Feb		<i>Worksheet 12 - Alternating series, absolute and conditional convergence</i>			
Wednesday	26-Feb	§11.7	Ratio and Root Tests, Strategies for Testing Series		B5 at 11:58 pm	Absolute and conditional convergence
Thursday	27-Feb		<i>Worksheet 13 - Ratio and Root tests</i>	Quiz 5, §§11.3-11.5		
Friday	28-Feb	§11.8	Power Series		B6 at 11:58 pm	Ratio and root tests
Monday	2-Mar	§11.9	Representing functions as power series			
Tuesday	3-Mar		<i>Worksheet 14 - Power series</i>			
Wednesday	4-Mar	§11.10	Taylor series		B7 at 11:58 pm	Power series
Thursday	5-Mar		<i>Worksheet 15 - Taylor Series</i>	Quiz 6, §§11.7-11.8		
Friday	6-Mar		Review for Exam 2		B8 at 11:58 pm	Taylor and McLaurin Series
Monday	9-Mar		Review for Exam 2			
Monday	9-Mar		Exam 2, Review session, 4-5:30 pm, KAS 213			
Tuesday	10-Mar		<i>Worksheet 16 – Review</i>			
Tuesday	10-Mar	Exam 2, 5-7 pm	Covers §11.1-11.10 WeBWorkKs A6, B1-B8			

Unit III: Applications of Integration, Calculus with Parametric and Polar Coordinates						
Day	Date	Reading	Topic	Quizzes	Webwork Due	WW Topic
Wednesday	11-Mar	§6.5	Average value of a function			
Thursday	12-Mar		Worksheet 17 - Average Value of a Function			
Friday	13-Mar	§6.2	Volumes with known cross section		C1 at 11:58 pm	Average Values
M-F	16-21 Mar		Spring Break			
Monday	23-Mar	§6.3	Volumes of revolution - disks and washer			
Tuesday	24-Mar		Worksheet 18 - Volumes I			
Wednesday	25-Mar	§6.3	Volumes of revolution by shells		C2 at 11:58 pm	Volumes I
Thursday	26-Mar		Worksheet 19 - Volumes II	Quiz 7, §§6.2, 6.5		
Friday	27-Mar	§8.1	Arc length		C3 at 11:58 pm	Volumes II
Monday	30-Mar	§8.2	Surface area			
Tuesday	31-Mar		Worksheet 20 - Arc length and surface area			
Wednesday	1-Apr	§8.3	Centers of mass; moments		C4 at 11:58 pm	Arc length and surface area
Thursday	2-Apr		Worksheet 21 - Centers of mass and moments	Quiz 8, §§6.3, 8.1, 8.2		
Friday	3-Apr	§10.1	Parametric equations		C5 at 11:58 pm	Centers of mass and moments
Friday	3-Apr		Last day to withdraw from a class			
Monday	6-Apr	§10.2	Calculus with parametric equations			
Tuesday	7-Apr		Worksheet 22 - Parametric equations			
Wednesday	8-Apr	§10.3	Polar coordinates		C6 at 11:58 pm	Parametric equations
Thursday	9-Apr		Worksheet 23 - Polar coordinates	Quiz 9, §§8.3, 10.1		
Friday	10-Apr		Review		C7 at 11:58 pm	Calculus with parametric equations
Monday	13-Apr		Review			
Monday	13-Apr		Exam 3 Review Session, 4-5:30 pm, KAS 213			
Tuesday	14-Apr		Worksheet 24 - Review			
Tuesday	14-Apr	Exam 3, 5-7 pm	Covers sections §§6.2, 6.3, 6.5, 8.1-8.3, 10.1-10.3, WeBWorks C1-C7			
Unit IV: Conic Sections, Differential Equations						
Day	Date	Reading	Topic	Quizzes	Webwork Due	WW Topic
Wednesday	15-Apr	§10.4	Calculus with polar coordinates (arc length and area)			
Thursday	16-Apr		Worksheet 25 - Calculus with polar coordinates			
Friday	17-Apr	§10.5	Conic sections		D1 at 11:58 pm	Polar coordinates
Monday	20-Apr	§10.5	Conic sections		D2 at 11:58 pm	Calculus with polar coordinates
Tuesday	21-Apr		Worksheet 26 - Conic sections			
Wednesday	22-Apr	§9.1	Modeling with differential equations		D3 at 11:58 pm	Conic sections
Thursday	23-Apr		Worksheet 27 - Differential equations	Quiz 10, §§10.4, 10.5		
Friday	24-Apr	§9.2	Direction fields		D4 at 11:58 pm	Differential Equations
Monday	27-Apr	§9.3	Separable equations			
Tuesday	28-Apr		Worksheet 28 - Direction Fields, separable equations			
Wednesday	29-Apr		Review for Final		D5 at 11:58 pm	Direction fields
Thursday	30-Apr		Review Worksheet 29			
Friday	1-May		Review for Final		D6 at 11:58 pm	Separable equations
Monday	4-May		Review for Final, 4-5:30pm, KAS 213			
Tuesday	5-May	Exam 4, 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 WeBWorks including D1-D6			