

DATE	QUIZ / LAB DUE	LECTURE TOPIC	ASSOCIATED PROBLEMS
M 1.13		§1.1: Course introduction; review of limits	(1.4) 1-11
T 1.14		§1.2-1.3: Review of derivatives and integrals	(1.4) 12-39
W 1.15		§2.1: Basic integration rules	(2.11) 1-8
R 1.16		<i>Mathematica lab 1: introduction and calculus</i>	
M 1.20	<i>No class - Martin Luther King Jr. Day</i>		
T 1.21	Quiz 1	§2.2: Linear Replacement Principle	(2.11) 9-20
W 1.22		§2.3: Rewriting the integrand	(2.11) 21-33
R 1.23		§2.4: Elementary u -substitutions	(2.11) 34-43
M 1.27	Lab 1 Due	<i>Mathematica lab 2: integration</i>	
T 1.28	Quiz 2	§2.5: Complicated u -substitutions	(2.11) 44-54
W 1.29	Quiz 3	§2.6: Integration by parts	(2.11) 55-75
R 1.30		§2.7: Undetermined coefficients	(2.11) 76-82
M 2.3	Lab 2 Due	§2.8: Partial fractions	(2.11) 83-90
T 2.4	Quiz 4	§2.8: Partial fractions	(2.11) 91-103
W 2.5		<i>Mathematica lab 3: partial fractions</i>	
R 2.6		§3.1: Introducing improper integrals	
M 2.10	Lab 3 Due Quiz 5	§3.1: Horizontally unbounded improper integrals	(3.5) 1-7
T 2.11		§3.2: Vertically unbounded improper integrals	(3.5) 8-21
W 2.12		§3.3: Theoretical approaches to improper integrals	(3.5) 22-31
R 2.13		§3.4: Gamma integrals	(3.5) 32-37
M 2.17		Review for Exam 1	
		<i>Mathematica lab 4: improper integrals</i>	
T 2.18	EXAM 1: covers Chapters 2-3		
W 2.19		§4.1: Area	(4.9) 1-6
R 2.20		§4.1: Area	(4.9) 7-16
M 2.24	Quiz 6	<i>Mathematica lab 5: area</i>	
T 2.25	Lab 4 Due	§4.2: Volume (disks and washers)	(4.9) 17-21
W 2.26		4.2: Volume (shells)	(4.9) 22-30
R 2.27		§4.3-4.4: Arc length	(4.9) 31-43
M 3.3	Lab 5 Due	Review of area and volume	
		<i>Mathematica lab 6: volume</i>	
T 3.4	Quiz 7	§4.5: One-dimensional centers of mass	(4.9) 44-50
W 3.5		§4.6: Two-dimensional centers of mass	(4.9) 51-58
R 3.6		§4.7: Moments of inertia	(4.9) 59-64
M 3.10	<i>No class - Spring break</i>		
↓			
R 3.13			
M 3.17	Quiz 8	<i>Mathematica lab 7: centers of mass and moments of inertia</i>	
T 3.18	Lab 6 Due	§4.8: Finite probability	(4.9) 65
W 3.19	<i>No class - Professor absent</i>		
R 3.20	<i>No class - Professor absent</i>		
M 3.24	Lab 7 Due	§4.8: Continuous random variables	(4.9) 66-76
T 3.25	Quiz 9	Review for Exam 2	
W 3.26	EXAM 2: covers Chapter 4		

DATE	QUIZ / LAB DUE	LECTURE TOPIC	ASSOCIATED PROBLEMS
R 3.27		§5.1: Introduction to infinite series	
M 3.31		§5.2-5.3: Convergence and divergence	(5.8) 1-22
T 4.1		§5.4: Properties of convergence and divergence	
W 4.2		§5.5: Changing indices	(5.8) 23-46
R 4.3	Quiz 10	<i>Mathematica lab 8: series</i>	
M 4.7		§5.6-5.7: Comparison Test and p -series	(5.8) 47-60
T 4.8	Quiz 11	§6.1-6.2: Geometric series	
R 4.9		§6.2-6.3: Geometric Series Test	(6.5) 1-22
R 4.10	Lab 8 Due	Review of geometric series	(6.5) 23-38
M 4.14	Quiz 12	§6.4: Ratio Test	(6.5) 39-42
T 4.15		§6.4: Ratio Test	(6.5) 43-52
W 4.16		§7.1-7.2: Alternating series	(7.5) 1-6
R 4.17	<i>No class - Mid-semester recess</i>		
M 4.21		§7.3: Absolute and conditional convergence	(7.5) 7-22
T 4.22	Quiz 13	§7.4: Review of series classification	(7.5) 23-43
W 4.23		§8.1: Introducing Taylor series	
R 4.24	(8.5) 44-79	§8.1: More on Taylor series	(8.5) 1-23
M 4.28	Quiz 14	§8.2: Applications of Taylor series	(8.5) 24-50
T 4.29		§8.2: More applications of Taylor series	(8.5) 51-84
W 4.30		<i>Mathematica lab 9: Taylor series</i>	
R 5.1		Review for Exam 3	
R 5.1	EXAM 3: covers Chapters 5-8		
T 5.6	Lab 9 Due	FINAL EXAM: cumulative; 12:00-1:40 PM in STR 137	