MTH 141 Calculus 1 – Spring 2019

Dates	Sections/Events/Exams	Problems
Jan 21	Jan 23 – 1st day of class	
	(1.2) Exponential Functions	(1.2) 1,2,5,7,9,10,15,16,19,29,38,40,41,43,49,55
	(1.3) New Functions From Old	(1.3) 1,2,3,8—12,14—17, 19,21,25,27,33,39, 41,49,51,55,56,58,59,73
Jan 25	(1.4) Logarithmic Functions	(1.4) 1—31 (odd), 32,35,37,39,42,43,45,49,61,62
Jan 28	(1.5) Trigonometric Functions	(1.5) 11,13,12,15,17,19,20,24,25,37,38,39,41,61,62,64,67,68,70,71
	(1.6) Powers, Polynomials, and Rational Functions	(1.6) 1—13 odd, 18—21, 27—32, 45,48,53,62—66,73
Feb 1	(1.7) Introduction to Limits and Continuity	(1.7) 1,3,4,5,6,7,8,11-17odd, 23,25—28,31,33,35,37,43,49,54,56,70, 71
Feb 4	(1.8) Extending the idea of a Limit	(1.8) 1,3,5,9,11,13,19,25,31,32,33,35,39,41—51odd, 57,61
	(1.9) Further Limit Calculations using Algebra	(1.9) 1—23odd, 27—31odd, 39,45
Feb 8	(2.1) How do we measure speed?	(2.1) 1,3,5,7,9,13,21,22,23,28
Feb 11	(2.2) The Derivative at a Point	(2.2) 1,3,5,9,11,12,13,19,21,23,28,29,32,33,34,37,51,52,56,58,60,61
	(2.3) The Derivative Function	(2.3) 1—13 odd, 22,23,25,29,33,44—47,57,58
Feb 15	(2.4) Interpretations of the Derivative	(2.4) 1,2,5,9-15odd,23,27,29,31,39,45,52
Feb 18	***EXAM 1, 6:30pm-8.00pm Tues Feb 19, Chafee 271***	
	(2.5) The Second Derivative	(2.5) 1,3,4,5,9,11-25odd,37,39,41
	(2.6) Differentiability	(2.6) 1-11,23-25,26-30
Feb 22	(3.1) Powers and Polynomials	(3.1) 1-43odd,69,71,77,83,95
Feb 25	(3.2) The Exponential Function	(3.2) 1-25odd, 47
	(3.3) The Product and Quotient Rules	(3.3) 1-39odd, 43,45,63,65
	(3.4) The Chain Rule	(3.4) 1-69odd,86,87
Mar 1	(3.5) The Trigonometric Functions	(3.5) 1-57odd,61,63
Mar 4	(3.6) The Chain Rule and Inverse Functions	(3.6) 1-43odd,51,53,59,61,65,67
	(3.7) Implicit Functions	(3.7) 1-33odd, 39
	(3.8) Hyperbolic Functions	(3.8) 1-13odd, 17,18,23,29,30
Mar 8	(3.9) Linear Approximation and the Derivative	(3.9) 1-13odd, 27,31,37
Mar 11		
	Spring Break – No Classes	
Mar 15		
Mar 18	(4.1) Using First and Second Derivatives	(4.1) 1-15odd,16-19,23,27,32,34,35,41,43,53,55
	(4.2) Optimization	(4.2) 1,5-9,11-19odd,23,24,31,33,3
Mar 22		
Mar 25	***EXAM 2, 6:30pm-8.00pm Tues Mar 26, Chafee 271***	
	(4.3) Optimization and Modeling	(4.3) 1,5,7,8,9,11-19odd,23,24,31,33,36,47
Mar 29		
April 1	(4.6) Rates and Related Rates	(4.6) 1-9odd,10,15-25odd,30,31,33,41,42,49,51
	(4.7) L'Hopital's Rule, Growth, and Dominance	(4.7) 1-12,13-37odd,43,58-64,71-74
Apr 5		
Apr 8	(5.1) How Do We Measure Distance Traveled?	(5.1) 1-9odd,10,11,25,27,30,31,33
	(5.2) The Definite Integral	(5.2) 1-15odd,23,24,35,37,47-53odd
Apr 12	(5.3) The Fundamental Theorem and Interpretations	(5.3) 1,3,4,5,7,15-27odd,33,35,53,54,55
Apr 15	(5.4) Theorems About Definite Integrals	(5.4) 1,3,4,5-21odd,22,25,29,31-37odd,41,53,55
	(6.2) Constructing Antiderivatives Analytically	(6.2) 3-33odd,67-83odd,87,89,91
Apr 19		
Apr 22	***EXAM 3, 6:30pm-8.00pm Tues Apr 23, Chafee 271***	
	(6.1) Antiderivatives Graphically and Numerically	(6.1) 3,7,9,13,25odd
	(6.4) The Second Fundamental Theorem of Calculus	(6.4) 5-17odd,23,27
Apr 26	(3.10) Theorems about differentiable functions	TBA
Apr 29	Review	
Apr 30	Last Day of Classes –	