

MTH 141 Spring 2018 - Calendar Version 01/20/2018

The following calendar gives a timetable for the course. Your class may be slightly behind or ahead at any given time. Some of the problems may be done in class, others as homework. Your instructor will be more specific. You should work out all the problems given below. NOTE: notation like "3-9" means that all problems from 3 to 9 are to be done. Textbook: Calculus: Single Variable, by Hughes-Hallet et al, **7th ed.**, Wiley.

Week	Dates	Sections/Events/Exams	Problems
	Jan 22	(1.1) Functions and Change (1.2) Exponential Functions (1.3) New Functions From Old	(1.1) 1,2,5,7,9,13,16,18,33,35—38,43,53,63,67,71 (1.2) 1,2,5,7,9,10,15,16,19,29,38,40,41,43,49,55 (1.3) 1,2,3,8—12,14—17, 19,21,25,27,33,39, 41,49,51,55,56,58,59,73
	Jan 26	(1.4) Logarithmic Functions	(1.4) 1—31 (odd), 32,35,37,39,42,43,45,49,61,62
	Jan 29	(1.5) Trigonometric Functions (1.6) Powers, Polynomials, and Rational Functions (1.7) Introduction to Limits and Continuity	(1.5) 11,13,12,15,17,19,20,24,25,37,38,39,41,61,62,64,67,68,70,71 (1.6) 1—13 odd, 18—21, 27—32, 45,48,53,62—66,73 (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 2	(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
	Feb 5	(1.9) Further Limit Calculations using Algebra	(1.9) 1—23odd, 27—31odd, 39,45
	Feb 9	(2.1) How do we measure speed? (2.2) The Derivative at a Point	(2.1) 1,3,5,7,9,13,21,22,23,28 (2.2) 1,3,5,9,11,12,13,19,21,23,28,29,32,33,34,37,51,52,56,58,60,61
	Feb 12	(2.3) The Derivative Function (2.4) Interpretations of the Derivative	(2.3) 1—13 odd, 22,23,25,29,33,44—47,57,58 (2.4) 1,2,5,9-15odd,23,27,29,31,39,45,52
	Feb 16	(2.5) The Second Derivative	(2.5) 1,3,4,5,9,11-25odd,37,39,41
	Feb 20	EXAM 1 6:30pm-8.00pm Tues Feb 20, CBL 100 (2.6) Differentiability	(2.6) 1-11,23-25,26-30
	Feb 23	(3.1) Powers and Polynomials	(3.1) 1-43odd,69,71,77,83,95
	Feb 26	(3.2) The Exponential Function (3.3) The Product and Quotient Rules (3.4) The Chain Rule	(3.2) 1-25odd, 47 (3.3) 1-39odd, 43,45,63,65 (3.4) 1-69odd,86,87
	Mar 2	(3.5) The Trigonometric Functions	(3.5) 1-57odd,61,63
	Mar 5	(3.6) The Chain Rule and Inverse Functions (3.7) Implicit Functions (3.8) Hyperbolic Functions	(3.6) 1-43odd,51,53,59,61,65,67 (3.7) 1-33odd, 39 (3.8) 1-13odd, 17,18,23,29,30
	Mar 9	(3.9) Linear Approximation and the Derivative	(3.9) 1-13odd, 27,31,37
	Mar 12	Spring Break – No Classes	
	Mar 16		
	Mar 19	(4.1) Using First and Second Derivatives (4.2) Optimization	(4.1) 1-15odd,16-19,23,27,32,34,35,41,43,53,55 (4.2) 1,5-9,11-19odd,23,24,31,33,3
	Mar 23		
	Mar 26	EXAM 2 6:30pm-8.00pm Tues Mar 27, CBL 100 (4.3) Optimization and Modeling	(4.3) 1,5,7,8,9,11-19odd,23,24,31,33,36,47
	Mar 30		
	April 2	(4.6) Rates and Related Rates (4.7) L'Hopital's Rule, Growth, and Dominance	(4.6) 1-9odd,10,15-25odd,30,31,33,41,42,49,51 (4.7) 1-12,13-37odd,43,58-64,71-74
	Apr 6		
	Apr 9	(5.1) How Do We Measure Distance Traveled? (5.2) The Definite Integral	(5.1) 1-9odd,10,11,25,27,30,31,33 (5.2) 1-15odd,23,24,35,37,47-53odd
	Apr 13	(5.3) The Fundamental Theorem and Interpretations	(5.3) 1,3,4,5,7,15-27odd,33,35,53,54,55
	Apr 16	(5.4) Theorems About Definite Integrals (6.2) Constructing Antiderivatives Analytically	(5.4) 1,3,4,5-21odd,22,25,29,31-37odd,41,53,55 (6.2) 3-33odd,67-83odd,87,89,91
	Apr 20		
	Apr 23	EXAM 3 6:30pm-8.00pm Tues Apr 24, CBL 100 (6.1) Antiderivatives Graphically and Numerically (6.4) The Second Fundamental Theorem of Calculus	(6.1) 3,7,9,13,25odd (6.4) 5-17odd,23,27
	Apr 27	(3.10) Theorems about differentiable functions	TBA
	Apr 30	Last Day of Classes –	