MTH 141 Spring 2017 - Calendar

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. You should work out all the problems given below. Notation like "3-9" means that all problems from 3 to 9 are to be done. Starred problems require technology. Textbook: Calculus: Single Variable, by Hughes-Hallet et al, **6th ed.**, Wiley.

Week	Dates	Sections/Events/Exams	Problems (*) = requires technology
1	Jan 23 | Jan 27	***First Day of Class Tuesday. Jan 26*** (1.1) Functions and Change (1.2) Exponential Functions (1.3) New Functions From Old	 (1.1) 1,6,9,12,16*,17,21,26,37,40,43,44*,51,55 (1.2) 5-14,22*,23,30*,35*,37,38 (1.3) 1,2,3,8,11,13,15,23,24,28-31,36,37,,55
2	Jan 30 | Feb 3	(1.4) Logarithmic Functions (1.5) Trigonometric Functions (1.6) Powers, Polynomials, and Rational Fns.	(1.4) 3,7-13,19,20,25,29,30,32*,33*,40*,50* (1.5) 14-19,22-23,27,30,33,39,41,43,44,51 (1.6) 3-10,19-22,36-38,45*,46*
3	Feb 6 | Feb 10	(1.7) Introduction to Continuity (1.8) Limits (2.1) How do we measure speed?	(1.7) 2-7,19-21,24-25,27,32,37 (1.8) 1-3,7-9,12-15,19*,23*,25*,29,31,54-62,64-67 (2.1) 1,3-5,8,9*,14-17,21,23,24*,25-28
4	Feb 13 | Feb 17	(2.2) The Derivative at a Point (2.3) The Derivative Function (2.4) Interpretations of the Derivative	(2.2) 1,4,10-13,17*,26*,35-38,41-50 (2.3) 1,3,7,9,11,13,15,16,19,21,28,29,31,33,43 (2.4) 1-4,6,9,11,12,18,21
5	Feb 20 | Feb 24	*Feb 20 Presidents Day - no classes* ***Exam 1 Tues. Feb 21, 6:30-8:00 p.m. CBLS 100*** (2.5) The Second Derivative (2.6) Differentiability (3.1) Powers and Polynomials	 (2.5) 2-4,8-13,16,18-23,28-31 (2.6) 1-4,6*,9,12,16 (3.1) 6-47odd,50-55-59,60,63,70,71
6	Feb 27 | Mar 3	(3.2) The Exponential Function (3.3) The Product and Quotient Rules (3.4) The Chain Rule	(3.2) 1-25odd,40,41 (3.3) 3-29odd,31,32,39-42,45,52,53 (3.4) 1-55 odd, 57,58,61,62,67,76ab,77
7	Mar 6 | Mar 10	(3.5) The Trigonometric Functions (3.6) The Chain Rule and Inverse Functions (3.7) Implicit Functions	(3.5) 10,11,18,21,27-30,38,42,62 (3.6) 1-8,21-28,43,57-59,63,65 (3.7) 1-20odd,26-30,31-33,37
8	Mar 13 | Mar 17	***Spring Break – No Classes***	
	Mar 20 | Mar 24	***Exam 2 Tues. Mar 21, 6:30-8:00p.m. CBLS100*** (3.8) Hyperbolic Functions (3.9) Linear Approximation and the Derivative	 (3.8) 1-11,30 (3.9) 1-7,10,11*,13*,14,20-22,30,31,36,38,39
9	Mar 27 | Mar 31	(3.10) Theorems about Differentiable Functions (4.1) Using First and Second Derivatives (4.2) Optimization	(3.10) 10,11,30-37 (4.1) 1,4-14,16-19,28-29,33,38-40 (4.2) 1-25odd,27,28,29*,36
10	Apr 3 | Apr 7	(4.3) Optimization and Modeling (4.6) Rates and Related Rates	(4.3) 1-9 odd, 17, 20-21, 28-30 (4.6) 1,2,5,7,11,12,16-19,25-29,33,44
11	Apr 10 | Apr 14	(4.7) L'Hopital's Rule, Growth, and Dominance (5.1) How Do We Measure Distance Traveled? (5.2) The Definite Integral	(4.7) 1-8, 16-18, 25-41 odd, 48,49 (5.1) 1-4, 6-12,13,15,17-18,24-25,27 (5.2) 3-4,11-17,19, 22*-28*, 31,32
12	Apr 17 | Apr 21	(5.3) The Fundamental Thm. & Interpretations (5.4) Theorems About Definite Integrals (6.1) Antiderivatives Graphically and Numerically	(5.3) 3-7,9-12,21,31,42 (5.4) 2-12,13*-17*,21,24,27-30 (6.1) 2-9,13-14,17,19,23,25
13	Apr 24 | Apr 28	***Exam 3 Tues. Apr 25, 6:30-8:00p.m. CBLS100*** (6.2) Constructing Antiderivatives Analytically (6.4) The 2nd Fundamental Theorem of Calculus	 (6.2) 1-60,65-67,70-71 (6.4) 4-5,11-14,35-38
14	May 1	*Monday May 1st Last day of Class*	