MTH 141 Introductory Calculus – Spring 2015 – Calendar (Version 1/28/2015)*

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. 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 21	*First Day of Class Wed. Jan 21*	
	|	(1.1) Functions and Change	(1.1) 1,6,9,12,16*,17,21,26,37,40,43,44*,51,55
	Jan 23	(1.2) Exponential Functions	(1.2) 5-14,22*,23,30*,35*,37,38
2	Jan 26	(1.3) New Functions From Old	(1.3) 1,2,3,8,11,13,15,23,24,28-31,36,37,,55
	Jan 30	(1.4) Logarithmic Functions	(1.4) 3,7-13,19,20,25,29,30,32*,33*,40*,50*
3	Feb 2	(1.5) Trigonometric Functions	(1.5) 14-19,22-23,27,30,33,39,41,43,44,51
	|	(1.6) Powers, Polynomials, and Rational Functions	(1.6) 3-10,19-22,36-38,45*,46*
	Feb 6	(1.7) Introduction to Continuity	(1.7) 2-7,19-21,24-25,27,32,37
4	Feb 9	(1.8) Limits	(1.8) 1-3,7-9,12-15,19*,23*,25*,29,31,54-62,64-67
	|	(2.1) How do we measure speed?	(2.1) 1,3-5,8,9*,14-17,21,23,24*,25-28
	Feb 13	(2.2) The Derivative at a Point	(2.2) 1,4,10-13,17*,26*,35-38,41-50
5	Feb 16	*EXAM 1 6:30pm-8.00pm Tuesday Feb 17, 6:30 pm*	
	|	(2.3) The Derivative Function	(2.3) 1,3,7,9,11,13,15,16,19,21,28,29,31,33,43
	Feb 20	(2.4) Interpretations of the Derivative	(2.4) 1-4,6,9,11,12,18,21
6	Feb 23	(2.5) The Second Derivative	(2.5) 2-4,8-13,16,18-23,28-31
	|	(2.6) Differentiability	(2.6) 1-4,6*,9,12,16
	Feb 27	(3.1) Powers and Polynomials	(3.1) 6-47odd,50-55-59,60,63,70,71
7	Mar 2	(3.2) The Exponential Function	(3.2) 1-25odd,40,41
	|	(3.3) The Product and Quotient Rules	(3.3) 3-29odd,31,32,39-42,45,52,53
	Mar 6	(3.4) The Chain Rule	(3.4) 1-55 odd, 57,58,61,62,67,76ab,77
8	Mar 9	(3.5) The Trigonometric Functions	(3.5) 10,11,18,21,27-30,38,42,62
	|	(3.6) The Chain Rule and Inverse Functions	(3.6) 1-8,21-28,43,57-59,63,65
	Mar 13	(3.7) Implicit Functions	(3.7) 1-20odd,26-30,31-33,37
	Mar 16		
	|	*Spring Break – No Classes*	
	Mar 20		
9	Mar 23	*EXAM 2 6:30pm-8.00pm Wed. March 25, 6:30 pm*	
	|	(3.9) Linear Approximation and the Derivative	(3.9) 1-7,10,11*,13*,14,20-22,30,31,36,38,39
	Mar 27	(4.1) Using First and Second Derivatives	(4.1) 1,4-14,16-19,28-29,33,38-40
10	Mar 30	(4.2) Optimization	(4.2) 1-25odd,27,28,29*,36
	Apr 3	(4.3) Optimization and Modeling	(4.3) 1-9 odd, 17, 20-21, 28-30
11	Apr 6	(4.6) Rates and Related Rates	(4.6) 1,2,5,7,11,12,16-19,25-29,33,44
	|	(4.7) L'Hopital's Rule, Growth, and Dominance	(4.7) 1-8, 16-18, 25-41 odd, 48,49
	Apr 10	(5.1) How Do We Measure Distance Traveled?	(5.1) 1-4, 6-12,13,15,17-18,24-25,27
12	Apr 13	(5.2) The Definite Integral	(5.2) 3-4,11-17,19, 22*-28*, 31,32
	|	(5.3) The Fundamental Theorem and Interpretations	(5.3) 3-7,9-12,21,31,42
	Apr 17	(5.4) Theorems About Definite Integrals	(5.4) 2-12,13*-17*,21,24,27-30
13	Apr 20	*EXAM 3 6:30pm-8.00pm Mon. April 20, 6:30 pm*	
	|	(6.1) Antiderivatives Graphically and Numerically	6.1) 2-9,13-14,17,19,23,25
	Apr 24	(6.2) Constructing Antiderivatives Analytically	(6.2) 1-60,65-67,70-71
14	Apr 27	(6.4) The Second Fundamental Theorem of Calculus	(6.4) 4-5,11-14,35-38
	Apr 29	Wed Apr 29 Last day of Class	

(*) Adjustments were made to compensate for the missing classes due to snow day class cancellations.

Last Modified: 01/28/15