MTH 131 Course Calendar Spring 2018

Below is an approximate timetable for the course. Your class may be slightly ahead or behind at any given time. Any adjustments will be announced in class.

Week of	Content	Suggested Problems
1/22	**Gateway Exam First Day of Class** 1.1 What is a Function? 1.2 Linear Functions	 (1.1) 7,9,11,13,14,15,21,22,25 (1.2) 1-17 odd,21,25
1/29	1.3 Average Rate of Change and Relative Change 1.5 Exponential Functions 1.6 The Natural Logarithm	(1.3) 1,3,4,7,9,11,13,15,21,27,30,31,33 (1.5) 1-7 odd,11,17,23,24,29,33 (1.6) 1,7,9,11,15,16,21,odd 25, 33, 36, 43,47
2/5	1.7 Exponential Growth and Decay 1.10 Periodic Functions 2.1 Instantaneous Rate of Change	(1.7) odds 3-9,13,15,odd 23-31 (1.10) 1,3,5,9,11,17,19,21,25,29 (2.1) 3,4,5,9,11,17,19,20,21
2/12	2.2 The Derivative Function Chapter 2 Focus on Theory: Limits, Continuity, & the Definition of the Derivative	(2.2) 1-9 odd, 18-21,27 (Page 135) 1,3,5,9,11,13,15,17,19,21, 27,35,37,39
2/19	*President's Day Monday 2/19 (NO CLASS)* **Exam 1 Tuesday 2/20 from 6-7:30 PM in Chafee 271** 2.3 Interpretations of the Derivative 2.4 The Second Derivative	 (2.3) 5,7,11,15,17,23,29,31 (2.4) 1,2,3,11,13,17,20,23
2/26	3.1 Derivative Formulas for Powers & Polynomials 3.2 Exponential & Logarithmic Functions 3.3 The Chain Rule	(3.1) 1-37 odd, 47,49,51,53,62 (3.2) 1-27 odd,37,41,45,47 (3.3) 1-27,34,37,49
3/5	3.4 The Product & Quotient Rules 3.5 The Derivatives of Periodic Functions Chapter 3 Focus on Practice: Differentiation	(3.4) 1,3-31,35 (3.5) 1-25 odd (Page 165) 15,21,35,37,43,49,61,62,71 (Page 174) 1-63 odd
3/12	*Spring Break (NO CLASS)*	
3/19	**Exam 2 Tuesday 3/20 from 6-7:30 PM in Chafee 271** Derivative Review 4.1 Local Maxima & Minima	 (4.1) 3,8,9,10,11,15,17,20,33
3/26	4.2 Inflection Points 4.3 Global Maxima & Minima	(4.2) 10,11-23 odd (4.3) 9,16-19,23,27,29
4/2	5.1 Distance & Accumulated Change 5.2 The Definite Integral 5.3 The Definite Integral as Area	(5.1) 3-15 odd, 19,29,31 (5.2) 1,3,5,7,9,11,15,19,21,31 (5.3) 1-13 odd,19,21,25,27,29
4/9	5.4 Interpretations of the Definite Integral 5.5 Total Change & the Fundamental Theorem of Calculus 6.1 Analyzing Antiderivatives Graphically & Analytically	(5.4) 1,5,7,9,11,13,17,18,24 (5.5) 1,14,15 (6.1) 5,7,8,21,22,23,24
4/16	**Exam 3 Tuesday 4/17 from 6-7:30 PM in Edwards Aud.** 6.2 Antiderivatives & the Indefinite Integral 6.3 Using the Fundamental Theorem of Calculus to Find Definite Integrals	 (6.2) 1-9 odd,12,15-73 odd (6.3) 1-21,25
4/23	5.6 Average Value 4.7 Logistic Growth 4.8 The Surge Function & Drug Concentration *Last Day of Class for TR Classes*	(5.6) 1,3,4,5,10,11 (4.7) 1,7,8,13,14 (4.8) 1,3,6,8
4/30	*Last Day of Class for MWF Classes*	