Calculus II: Mathematics UN1102 (Spring 2020 Section 1) Schedule

Week	Topic	Section
1 Jan. 22	Intro, review of Calculus I	1-4, 5.1-5.4
	u-substitution	5.5
2 Jan. 27, 29	u-substitution	5.5
HW 1 due Jan. 29	Integration by parts	7.1
	Integrals with trigonometry	7.2, 7.3
3 Feb. 3, 5	Partial fractions	7.4
HW 2 due Feb. 5	Integration strategies	7.5
4 Feb. 10, 12	Improper integrals	7.8
HW 3 due Feb. 12	Areas	6.1
	Volume 🍩 🍩 🍩	6.2
5 Feb. 17, 19	(Feb. 17) Volume by cylindrical shells	6.3
	Arc length	8.1
HW 4 due Feb. 19	(Feb. 19) Review	
6 Feb. 24, 26	(Feb. 24) Midterm 1	
	(Feb. 26) Sequences	11.1
7 Mar. 2, 4	Series	11.2
HW 5 due Mar. 4	Integral test	11.3
8 Mar. 9, 11	Comparison tests and alternating series	11.4, 11.5
HW 6 due Mar. 11	Absolute convergence, ratio, and root tests	11.6
9 Mar. 23, 25	Power series	11.8
HW 7 due Mar. 25	Functions as power series	11.9
10 Mar. 30, Apr. 1	Taylor's theorem and Taylor series	11.10
HW 8 due Apr. 1		
11 Apr. 6, 8	(Apr. 6) Review	
HW 9 due Apr. 8	(Apr. 8) Midterm 2	
12 Apr. 13, 15	Parametric curves	10.1, 10.2
HW 10 due Apr. 15	Polar coordinates	10.3, 10.4
13 Apr. 20, 22	Differential equations and direction fields	9.1, 9.2
HW 11 due Apr. 22	Separable equations	9.3
14 Apr. 27, 29	Linear differential equations	9.5
HW 12 due Apr. 29	Predator-prey systems	9.6
15 May. 4	Review	
16 May. 11	Final Exam 1:10-4:00 pm	