

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

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