

Calculus II: Mathematics UN1102 (Fall 2019 Section 1) Schedule

Week	Topic	Section
1 Sept. 4	Intro, review of Calculus I <i>u</i> -substitution	1-4, 5.1-5.4 5.5
2 Sept. 9, 11 HW 1 due Sept. 11	<i>u</i> -substitution Integration by parts Integrals with trigonometry	5.5 7.1 7.2, 7.3
3 Sept. 16, 18 HW 2 due Sept. 18	Partial fractions Integration strategies	7.4 7.5
4 Sept. 23, 25 HW 3 due Sept. 25	Improper integrals Areas Volume 🍷 🍷 🍷	7.8 6.1 6.2
5 Sept. 30, Oct. 2 HW 4 due Oct. 2	(Sept. 30) Volume by cylindrical shells Arc length (Oct. 2) Review	6.3 8.1
6 Oct. 7, 9	(Oct. 7) Midterm 1 (Oct. 9) Sequences	11.1
7 Oct. 14, 16 HW 5 due Oct. 16	Series Integral test	11.2 11.3
8 Oct. 21, 23 HW 6 due Oct. 23	Comparison tests and alternating series Absolute convergence, ratio, and root tests	11.4, 11.5 11.6
9 Oct. 28, 30 HW 7 due Oct. 30	Power series Functions as power series	11.8 11.9
10 Nov. 6 HW 8 due Nov. 6	Taylor's theorem and Taylor series	11.10
11 Nov. 11, 13 HW 9 due Nov. 13	(Nov. 11) Review (Nov. 13) Midterm 2	
12 Nov. 18, 20 HW 10 due Nov. 20	Parametric curves Polar coordinates	10.1, 10.2 10.3, 10.4
13 Nov. 25	Differential equations and direction fields Thanksgiving 🍷 🍷 🍷	9.1, 9.2
14 Dec. 2, 4 HW 11 due Dec. 4	Separable equations Linear differential equations	9.3 9.5
15 Dec. 9 HW 12 due Dec 9	Review	
16 Dec. 16	Final Exam 1:10-4:00 pm	