

**MATH 1220 Tentative Lecture Schedule  
Summer 2024 (Subject to Change)**

WEEK	DATE	SECTIONS COVERED	SUGGESTED PRACTICE QUESTIONS
1	7 May	Intro, Sigma Notation 5.1 Areas	App. E 5, 9, 13, 15, 19, 23, 31, 35, 41 1 – 5 (all), 7, 9, 13, 17 – 23
	9 May	5.2 The definite integral	1 – 7, 11, 19 – 35, 41 – 45, 51 – 73, 83, 84
2	14 May	5.3 Fundamental theorem	1 – 71, 85, 86
	16 May	5.4 Indefinite integrals 5.5 Integration by substitution	1 – 53, 59, 61, 65, 69 – 73 (all) 1 – 79 (omit #43)
3	21 May	6.1 Areas between curves	1 – 17, 19 – 35 (every second odd), 41, 43
	23 May	6.2 Volumes by disks	1 – 9, 11 – 27 (e.s.o), 35, 36, 49, 53, 61, 67,71
4	28 May	6.3 Volumes by shells	3 – 29, 39, 41, 51, 55, 57, 61
	30 May	6.4 Work	1 – 23, 24, 25, 26
5	4 Jun	6.5 Average value 7.1 Integration by parts	3, 7, 9, 19 1 – 37 (e.s.o), 43, 45, 63, 69
	6 Jun	<b>Test #1</b>	
6	11 Jun	7.2 Trigonometric integrals 7.3 Trigonometric substitution	1 – 55 (e.s.o), 69 – 72 5, 7, 9 – 35 (every second odd)
	13 Jun	7.4 Integration by partial fractions 7.5 Strategies for integration	1, 3, 5, 7 – 55 (e.s.o) As many as humanly possible
7	18 Jun	7.8 Improper integrals	1 – 47, (e.s.o), 57 – 67
	20 Jun	9.1 Differential equations	1 – 5 (all), 7 – 13, 19, 23, 25
8	25 Jun	9.3 Separable differential equations	1 – 21, 31, 33, 43, 47, 49, 51
	27 Jun	8.1 Arc length 10.2 10.4	3 – 25, 33, 41, 43, 53 47, 49, 51, 55, 57 49 – 57
9	2 July	11.1 Sequences	3–15 (e.s.o), 17, 19, 21, 25, 27 – 61 (e.s.o), 78–84
	4 July	11.2 Series	e.s.o
10	9 July	11.3 The integral Test	3–33 e.s.o
	11 July	11.4 The Comparison Tests	3 – 21 (e.s.o), 23 – 33, 37 – 43
11	16 July	11.5 Alternating Series	3 – 39
	18 July	<b>Test #2</b>	
12	23 July	11.6 The Ratio Test (Skip Root Test)	e.s.o
	25 July	11.8 Power series	3 – 35
13	30 July	11.9 Functions as power series	1 – 33
	1 Aug	11.10 Taylor and Maclaurin series	5 – 17, 21 – 31, 39 – 47, 59 – 71, 73, 79, 83
14	6 Aug	11.11 Applications of Taylor	3 – 9, 13 – 19

**The date for the final examination will be announced later in the semester. The final exam will be comprehensive**