

MATH 507 Dynamical Systems I Fall 2024 Schedule

Lec.	Date	Topic	Section
1	8/27	Introduction, questions, and examples. Contractions.	1.1
2	8/29	Stability of contractions. Fixed points. Increasing interval maps.	1.1
3	9/3	Circle rotations. Equidistribution. First digits of powers.	1.3, -
4	9/5	Topological transitivity and minimality.	1.3, 1.4
5	9/10	Translations on the torus.	1.4
6	9/12	Topological conjugacy and semiconjugacy.	2.3
7	9/17	Times- m map of the circle.	1.7
8	9/19	Full shift on m symbols.	1.9
9	9/24	Topological mixing. Subshifts of finite type.	1.9
10	9/26	Subshifts of finite type.	1.9
11	10/1		
12	10/3		
13	10/8		
14	10/10		
15	10/15		
16	10/17		
17	10/22		
18	10/24		
19	10/29		
20	10/31		
21	11/5		
22	11/7		
23	11/12		
24	11/14		
25	11/19		
26	11/21		
	11/24-30	<i>Thanksgiving break – no classes.</i>	
27	12/3		
28	12/5	Project presentations.	
29	12/10	Project presentations.	
30	12/12	Project presentations.	