

2015 Houston Summer School on Dynamical Systems – Schedule of lectures

All lectures in Agnes Arnold Hall, room 110

Week 1

	Wednesday May 20	Thursday May 21	Friday May 22	Saturday May 23
	9-9:30 Coffee			
9:30-10:30	Intro & overview <i>Climenhaga</i>	Probability 1 <i>Nicol</i>	Uniform 3 <i>Hasselblatt</i>	Probability 2 <i>Climenhaga</i>
	10:30-10:45 Break			
10:45-11:45	Uniform 1 <i>Hasselblatt</i>	Uniform 2 <i>Hasselblatt</i>	IET 3 <i>Chaika</i>	IET 4 <i>Chaika</i>
	11:45-1:15 Lunch			
1:15-2:15	IET 1 <i>Chaika</i>	IET 2 <i>Chaika</i>	Uniform 4 <i>Hasselblatt</i>	Non-uniform <i>Vaienti</i>
	2:15-2:30 Break			
2:30-4	Review sessions, group projects			

Week 2

	Tuesday May 26	Wednesday May 27	Thursday May 28
	9-9:30 Coffee		
9:30-10:30	Partial 1 <i>Burns</i>	Partial 2 <i>Burns</i>	Neural dynamics <i>Kilpatrick</i>
	10:30-10:45 Break		
10:45-11:45	Probability 3 <i>Torok</i>	Probability 4 <i>Nicol</i>	Partial 4 <i>Burns</i>
	11:45-1:15 Lunch		
1:15-2:15	Billiards <i>Zhang</i>	Partial 3 <i>Burns</i>	Probability 5 <i>Ott</i>
	2:15-2:30 Break		
2:30-4	Review sessions, group projects		

Course and lecture abbreviations

Probability	Probability in dynamics, decay of correlations	<i>Vaughn Climenhaga, Matt Nicol, Will Ott, Andrew Torok</i>
Uniform	Uniform hyperbolicity	<i>Boris Hasselblatt</i>
Partial	Partial hyperbolicity	<i>Keith Burns</i>
IETs	Rotations and interval exchange transformations	<i>Jon Chaika</i>
Non-uniform	Rates of mixing for non-uniformly hyperbolic maps	<i>Sandro Vaienti</i>
Billiards	Basic properties of billiard systems	<i>Pengfei Zhang</i>
Neural dynamics	Dynamics of neural excitability	<i>Zack Kilpatrick</i>