

Week	Date	Topic	Instructor	Readings	Handout	Turn In
		<i>Part I. Quantifying spatial patterns</i>				
1	Aug 29 (Mon)	Course Intro / Spatial Data in R	Fitzpatrick	FF Ch.1	HW1 - Getting Setup	
1	Aug 31 (Wed)	Spatial Data in R	Fitzpatrick	Rose et al. (2017)	HW2 - Working with Spatial Data in R	HW1
2	Sep 5 (Mon)	HOLIDAY	HOLIDAY			
2	Sep 7 (Wed)	Agents of Spatial Pattern	Fitzpatrick	Foster (1992) (Discussion)		
3	Sep 12 (Mon)	Scale / Spatial Dependence	Fitzpatrick	FF Ch. 2		
3	Sep 14 (Wed)	Scale / Spatial Dependence	Fitzpatrick	FF Ch. 5		HW2
4	Sep 19 (Mon)	Landscape Pattern and Change	Cohen	FF Chp. 3		
4	Sep 21 (Wed)	Landscape Pattern and Change	Cohen	Planned discussion, paper TBD		
5	Sep 26 (Mon)	Point Pattern Analysis	Fitzpatrick	FF Ch. 4	HW3&4 - Autocorrelation & Point Patterns	
5	Sep 28 (Wed)	Point Pattern Analysis	Fitzpatrick			
6	Oct 3 (Mon)	Catch-up / Species Distribution Models	Fitzpatrick	Elith & Leathwick (2009); Franklin Ch. 3		
		<i>Part II. Ecological responses to spatial patterns</i>				
6	Oct 5 (Wed)	Species Distribution Models	Fitzpatrick	FF. Ch. 7	HW5 - Species Distribution Modeling	HW3&4
7	Oct 10 (Mon)	Project Proposals	Students			
7	Oct 12 (Wed)	Species Distribution Models	Fitzpatrick	Pearson & Dawson (2003) (or similar)		
8	Oct 17 (Mon)	Species Distribution Models	Fitzpatrick	Franklin Chs. 6-9 (highlighted sections only)		
8	Oct 19 (Wed)	Species Distribution Models	Fitzpatrick	Planned discussion, paper TBD		HW5
9	Oct 24 (Mon)	Movement Ecology	Cohen	Nathan et al.		
9	Oct 26 (Wed)	Characterizing Movement	Cohen	Planned discussion, paper TBD		
10	Oct 31 (Mon)	Home Range and Resource Selection	Cohen	FF Ch. 8		
10	Nov 2 (Wed)	Home Range and Resource Selection	Cohen		HW6- Home range and resource selection	
11	Nov 7 (Mon)	Project Updates	Students			
11	Nov 9 (Wed)	Community level models	Fitzpatrick	FF Ch. 11		
12	Nov 14 (Mon)	Community level models	Fitzpatrick	Ferrier & Guisan (2006) (or similar)		HW6
12	Nov 16 (Wed)	Movement in Heterogeneous Environemr	Cohen			
13	Nov 21 (Mon)	Movement in Heterogeneous Environemnts	Cohen		HW7- Analyzing Animal Movement	
13	Nov 23 (Wed)	HOLIDAY	HOLIDAY			
14	Nov 28 (Mon)	Seascape Ecology	Secor			
14	Nov 30 (Wed)	Aeroecology	DeSimone	Planned discussion, paper TBD		
15	Dec 5 (Mon)		Project work			HW7
15	Dec 7 (Wed)		Project work			
16	Dec 12 (Mon)		Presentations			
16	Dec 14 (Wed)		Presentations			