Schedule, Spring 2022

NRES 470/670

Please check for updates frequently!

Week	Dates	Topic	Readings
Week 1	1/17/2022	NO CLASS (MLK day)	
	1/19/2022	LECTURE: Course overview; Intro to Systems Thinking	BCTD Chapter 1 (optional)
	1/21/2022	LAB 1: Introduction to population modeling in Excel, InsightMaker, and R	Gotelli Chapter 1
Week 2	1/24/2022	LECTURE: Intro to Population Ecology; Exponential growth	Gotelli Chapter 1
	1/26/2022	LECTURE: Malthus and exponential growth	
	1/28/2022	LAB 1 (cont'd)	
Week 3	1/31/2022	LECTURE: Density-dependent growth	Gotelli Chapter 2
	2/2/2022	LECTURE: Density-dependent growth	Gotelli Chapter 2
	2/4/2022	LAB 2: Density-dependent populations in InsightMaker; maximum sustainable yield (MSY) and more (lab 1 due)	
Week 4	2/7/2022	LECTURE: Passenger pigeon/Allee Effect	
	2/9/2022	LECTURE: Age-structured populations (instructor away, no class meeting)	Gotelli Chapter 3
	2/11/2022	LAB 3: Age-structured populations in Excel and InsightMaker (lab 2 due)	
Week 5	2/14/2022	LECTURE: Matrix population models	Heppell 1998
	2/16/2022	LECTURE: Matrix population models (get in project groups)	Gotelli Chapter 3
	2/18/2022	LAB 4: Matrix population models in R and InsightMaker (lab 3 due)	
Week 6	2/21/2022	NO CLASS: President's Day	
	2/23/2022	LECTURE: PVA, final projects	
	2/25/2022	Work in final project groups: PVA proposals	
Week 7	2/28/2022	LECTURE: Stochasticity and uncertainty	Regan 2002
	3/2/2022	LECTURE: Stochasticity and uncertainty	
	3/4/2022	LAB 5: Stochasticity and uncertainty (lab 4 due) (group assignment: PVA proposals due)	
Week 8	3/7/2022	Review for Midterm #1	
	3/9/2022	MIDTERM #1	
	3/11/2022	PVA projects: group meetings (or make alternate arrangements for a group meeting time)	
Week 9	3/14/2022	NO CLASS: spring break	

Week	Dates	Topic	Readings
	3/16/2022	NO CLASS: spring break	
	3/18/2022	NO CLASS: spring break	
Week 10	3/21/2022	LECTURE: Small population paradigm	Caughley 1994
	3/23/2022	LECTURE: Declining population paradigm	Caughley 1994
	3/25/2022	Work on final projects (PVA models due next week) (lab 5 due)	
Week 11	3/28/2022	LECTURE: Population Viability Analysis	Beissinger and Westphal 1998
	3/30/2022	LECTURE: Metapopulations	Gotelli Chapter 4
	4/1/2022	LAB 6: Metapopulation modeling in InsightMaker (group assignment: PVA models due)	
Week 12	4/4/2022	LECTURE: Source-sink dynamics	Griffin et al
	4/6/2022	LECTURE: Parameter estimation	Amstrup et al Chapter 1
	4/8/2022	LAB 7 (optional): Parameter estimation: mark-recapture data (lab 6 due)	
Week 13	4/11/2022	Review for Midterm #2 (group assignment: peer review papers due)	
	4/13/2022	MIDTERM #2	
	4/15/2022	LAB: Final Project Peer Review (submit peer review)	
Week 14	4/18/2022	LECTURE: Species interactions: competition	Gotelli Chapter 5
	4/20/2022	LECTURE: Species interactions: competition	
	4/22/2022	LAB: STUDENT PRESENTATIONS (final project: complete drafts due)	
Week 15	4/25/2022	LECTURE: Species interactions: predator-prey	Gotelli Chapter 6
	4/27/2022	TBD	
	4/29/2022	LAB: STUDENT PRESENTATIONS	
Week 16	5/2/2022	LECTURE: Final Class Review	
	5/4/2022	NO CLASS: Prep Day	
	5/6/2022	FINAL EXAM (9:50 to 11:50am)	
Week 17	5/11/2022	FINAL PAPERS DUE (last day of finals)	