Schedule, Spring 2023

NRES 470/670

Please check for updates frequently!

Week	Dates	Topic	Readings	Due
Week 1	1/23/2023	LECTURE: Course overview; Intro to Systems Thinking		
	1/25/2023	LECTURE: Intro to Population Ecology; Exponential growth	Gotelli Chapter 1	
	1/27/2023	LAB 1: Introduction to population modeling in Excel, InsightMaker, and R	Gotelli Chapter 1	
Week 2	1/30/2023	LECTURE: Intro to Population Ecology; Exponential growth		
	2/1/2023	LECTURE: Malthus and exponential growth	Gotelli Chapter 2	
	2/3/2023	LAB 1 (cont'd)		
Week 3	2/6/2023	LECTURE: Density-dependent population growth	Gotelli Chapter 2	
	2/8/2023	LECTURE: Passenger pigeon/Allee Effect		
	2/10/2023	LAB 2: Density-dependent populations in InsightMaker; MSY		Lab 1
Week 4	2/13/2023	LECTURE: Age-structured populations	Gotelli Chapter 3	
	2/15/2023	LECTURE: Age-structured populations	Gotelli Chapter 3	
	2/17/2023	LAB 3: Age-structured populations in Excel and InsightMaker		Lab 2
Week 5	2/20/2023	President's Day (no class)		
	2/22/2023	LECTURE: Matrix population models	Gotelli Chapter 3	Get in project groups
	2/24/2023	LAB 4: Matrix population models in R and InsightMaker		Lab 3
Week 6	2/27/2023	LECTURE: Matrix population models	Heppell 1998	
	3/1/2023	LECTURE: Stochasticity and uncertainty	Regan 2002	
	3/3/2023	Work in final project groups: PVA proposals		
Week 7	3/6/2023	LECTURE: Stochasticity and uncertainty		
	3/8/2023	TBD		
	3/10/2023	LAB 5: Stochasticity and uncertainty		PVA proposals, Lab 4
Week 8	3/13/2023	Review for Midterm #1		
	3/15/2023	MIDTERM #1		
	3/17/2023	PVA projects: group meetings (or make alternate arrangements for a group meeting time)		

Week	Dates	Topic	Readings	Due
Week 9	3/20/2023	Spring Break (no class)		
	3/22/2023	Spring Break (no class)		
	3/24/2023	Spring Break (no class)		
Week 10	3/27/2023	LECTURE: Small population paradigm	Caughley 1994	
	3/29/2023	LECTURE: Declining population paradigm	Caughley 1994	
	3/31/2023	Work on final projects (PVA models due apr 6) (lab 5 due)		
Week 11	4/3/2023	LECTURE: Population Viability Analysis	Beissinger and Westphal 1998	
	4/5/2023	LECTURE: Metapopulations	Gotelli Chapter 4	
	4/7/2023	LAB 6: Metapopulation modeling in InsightMaker		
Week 12	4/10/2023	LECTURE: Source-sink dynamics	Griffin et al	
	4/12/2023	LECTURE: Parameter estimation	Amstrup et al Chapter 1	PVA models due
	4/14/2023	PVA projects: group meetings (working model and description)		
Week 13	4/17/2023	Review for Midterm #2		
	4/19/2023	MIDTERM #2		
	4/21/2023	LAB 7: Parameter estimation: mark-recapture data		Lab 6
Week 14	4/24/2023	LECTURE: Species interactions: competition	Gotelli Chapter 5	Complete PVA drafts
	4/26/2023	LECTURE: Species interactions: competition		
	4/28/2023	LAB: Final Project Peer Review (submit peer review)		
Week 15	5/1/2023	LECTURE: Species interactions: predator-prey	Gotelli Chapter 6	
	5/3/2023	LECTURE: STUDENT PRESENTATIONS		
	5/5/2023	LAB: STUDENT PRESENTATIONS		
Week 16	5/8/2023	LECTURE: Final Class Review		
	5/10/2023	NO CLASS: Prep Day		
	5/12/2023	FINAL EXAM (9:50 to 11:50am)		
Week 17	5/15/2023	FINAL PAPERS DUE (last day of finals)		Final PVA write-up