Schedule, Spring 2021

NRES 470/670

Please check for updates frequently!

Week	Dates	Topic	Readings
Week 1	1/25/2021	LECTURE: Course overview; Intro to Systems Thinking	BCTD Chapter 1
	1/27/2021	LECTURE: Intro to Population Ecology; Exponential growth	Gotelli Chapter 1
	1/29/2021	LAB 1: Introduction to population modeling in Excel, InsightMaker, and R	Gotelli Chapter 1
Week 2	2/1/2021	LECTURE: Malthus and exponential growth	
	2/3/2021	LECTURE: Density-dependent growth	Gotelli Chapter 2
	2/5/2021	LAB 1 (cont'd)	
Week 3	2/8/2021	LECTURE: Density-dependent growth	Gotelli Chapter 2
	2/10/2021	LECTURE: Passenger pigeon/Allee Effect	
	2/12/2021	LAB 2: Density-dependent populations in InsightMaker; maximum sustainable yield (MSY) and more	BCTD Chapter 2 (skim)
Week 4	2/15/2021	NO CLASS: President's Day	
	2/17/2021	LECTURE: Age-structured populations	Gotelli Chapter 3
	2/19/2021	LAB 3: Age-structured populations in Excel and InsightMaker	
Week 5	2/22/2021	LECTURE: Matrix population models	Heppell 1998
	2/24/2021	LECTURE: Matrix population models	Gotelli Chapter 3
	2/26/2021	Work on PVA proposals	
Week 6	3/1/2021	LECTURE: Matrix population models	Gotelli Chapter 3
	3/3/2021	LECTURE: Stochasticity and uncertainty	Regan 2002
	3/5/2021	LAB 4: Matrix population models in R and InsightMaker	
Week 7	3/8/2021	LECTURE: Stochasticity and uncertainty	
	3/10/2021	NO CLASS: READING DAY	
	3/12/2021	PVA proposals (proposals due)	
Week 8	3/15/2021	MIDTERM #1	
	3/17/2021	LECTURE: Stochasticity and uncertainty	
	3/19/2021	Work on group PVA projects (proposal meetings)	
Week 9	3/22/2021	LECTURE: Small population paradigm	Caughley 1994
	3/24/2021	NO CLASS (No Instruction Day)	

Week	Dates	Topic	Readings
	3/26/2021	LAB 5: Stochasticity and uncertainty	
Week 10	3/29/2021	LECTURE: Declining population paradigm	Caughley 1994
	3/31/2021	LECTURE: PVA!	Beissinger and Westphal 1998
	4/2/2021	Final projects (PVA models due next week)	
Week 11	4/5/2021	LECTURE: Metapopulations	Gotelli Chapter 4
	4/7/2021	LECTURE: Source-sink dynamics	Griffin et al
	4/9/2021	LAB 6: Metapopulation modeling in InsightMaker (PVA models due)	
Week 12	4/12/2021	LECTURE: Parameter estimation	Amstrup et al Chapter 1
	4/14/2021	LECTURE: MIDTERM #2	
	4/16/2021	LAB 7 (optional): Parameter estimation: mark-recapture data	
Week 13	4/19/2021	LECTURE: Species interactions: competition	Gotelli Chapter 5
	4/21/2021	NO CLASS: READING DAY	
	4/23/2021	LAB: STUDENT PRESENTATIONS AND PEER REVIEW	
Week 14	4/26/2021	LECTURE: Species interactions: competition	
	4/28/2021	LECTURE: Species interactions: predator-prey (final project: complete drafts due)	Gotelli Chapter 6
	4/30/2021	LAB: STUDENT PRESENTATIONS	
Week 15	5/3/2021	LECTURE: Final Class Review	
	5/5/2021	NO CLASS: Prep Day	
	5/7/2021	FINAL EXAM (9:50 to 11:50am)	
Week 16	5/12/2021	FINAL PAPERS DUE (last day of finals)	