Schedule, Spring 2021

NRES 470/670

Please check for updates frequently!

NOTE: in 2021 we are online, the course materials are available for you to work through on your own pace, and you are only required to attend one 'lecture' period per week (M or W). So we will mostly follow the schedule listed below, but the items labeled 'LECTURE' are available online (asynchronously). Hope this makes sense!!

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	

Week	Dates	Topic	Readings
	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)	
	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)	