Schedule, Spring 2020

NRES 470/670

Please check for updates frequently!

Week	Dates	Topic
Week 1	1/20/2020	NO CLASS (MLK Day)
	1/22/2020	LECTURE: Course overview; Intro to Systems Thinking
	1/24/2020	LAB 1: Introduction to population modeling in Excel, InsightMaker, and R
Week 2	1/27/2020	LECTURE: Intro to Population Ecology; Exponential growth
	1/29/2020	LECTURE: Malthus and exponential growth
	1/31/2020	LAB 1 (cont'd)
Week 3	2/3/2020	LECTURE: Density-dependent growth
	2/5/2020	LECTURE: Density-dependent growth
	2/7/2020	LAB 2: Density-dependent populations in InsightMaker; maximum sustainable yield (MSY) and mo
Week 4	2/10/2020	LECTURE: Passenger pigeon/Allee Effect
	2/12/2020	LECTURE: Age-structured populations
	2/14/2020	LAB 3: Age-structured populations in Excel and InsightMaker
Week 5	2/17/2020	LECTURE: Age-structured populations
	2/19/2020	LECTURE: Matrix population models
	2/21/2020	Work on PVA proposals
Week 6	2/24/2020	LECTURE: Matrix population models
	2/26/2020	LECTURE: Matrix population models
	2/28/2020	LAB 4: Matrix population models in R and InsightMaker
Week 7	3/2/2020	MIDTERM #1
	3/4/2020	LECTURE: Stochasticity and uncertainty
	3/6/2020	LAB 4 (cont'd) and PVA proposals
Week 8	3/9/2020	LECTURE: Stochasticity and uncertainty (proposals due)
	3/11/2020	LECTURE: Small population paradigm
	3/13/2020	Work on group PVA projects (attendance optional)
Week 9	3/16/2020	SPRING BREAK
	3/18/2020	"
	3/20/2020	"
Week 10	3/23/2020	LECTURE: Individual based models
	3/25/2020	LECTURE: Small population paradigm/Individual based models
	3/27/2020	LAB 5: Stochasticity and uncertainty (proposal discussions)
Week 11	3/30/2020	LECTURE: Declining population paradigm
	4/1/2020	LECTURE: Metapopulations
	4/3/2020	Final projects (PVA models due next week)
Week 12	4/6/2020	LECTURE: Source-sink dynamics
	4/8/2020	LECTURE: MIDTERM #2
	4/10/2020	LAB 6: Metapopulation modeling in InsightMaker (PVA models due)
Week 13	4/13/2020	LECTURE: Parameter estimation
	4/15/2020	LECTURE: Parameter estimation
	4/17/2020	LAB: Parameter estimation: mark-recapture data
Week 14	4/20/2020	LECTURE: Species interactions: competition
	4/22/2020	LECTURE: Species interactions: competition

Week	Dates	Topic
	4/24/2020	LAB: STUDENT PRESENTATIONS AND PEER REVIEW
Week 15	4/27/2020	LECTURE: Species interactions: predator-prey (final project: complete drafts due)
	4/29/2020	LECTURE: Species interactions: predator-prey
	5/1/2020	LAB: STUDENT PRESENTATIONS
Week 16	5/4/2020	LECTURE: final class review
Week 17	5/8/2020	FINAL EXAM (9:50 to 11:50am)
	5/13/2020	FINAL PAPERS DUE (last day of finals)