BISC-838, Population Dynamics, Spring 2021

Lecture:	Mon,Thurs,Fri	09:00-11:00	Remote
Workshops:	Mon,Thurs,Fri	15:00-16:00	Remote

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Grade Breakdown:

R workshops	Due Feb. 1, 8, 15	30%
Assignment 1	Due Feb. 7	20%
Assignment 2 (Final project)	Due Feb. 19	30%
Presentation	Feb. 11/12	20%

Course Schedule *Note: this outline is tentative and will be updated as we progress.*

Dates	Content	Workshop
Jan 25	Introduction Exponential growth	Intro to R *Due Feb 1*
Jan 28	Density-dependence Model construction	Graphics *Due Feb 1*
Jan 29	Analyses: graphs Island model, Matrix algebra	Numerical analysis *Due Feb 8*
Feb 1	Matrix algebra, cont Demography	Matrices *Due Feb 8*
Feb 4	Proability distributions Stochasticity	Demography *Due Feb 15*
Feb 5	Individual-based models	Stochasticity *Due Feb 15*
Feb 8	Individual-based models	Individual-based models *Due Feb 15*
Feb 11	Presentations	
Feb 12	Presentations	

Workshop submissions: Workshops are due in three sets (by midnight on specified date). Please combine work from all workshops due on a given date into a single R script with the filename, for example, "LASTNAME_FIRSTNAME_WORKSHOP_1_2.R" and then upload it in canvas. I will be running these scripts on my own machine, so it is important that the code works! Workshops will be largely graded for completion (e.g., did you do everything?), however, points will be deducted if code is really unwieldy or difficult to understand. Remember to add comments throughout!