

BIOL-006C: Ecology & Evolution



Summer 2023

Week	Date	Day	Lab topic	Asynchronous Lecture topic	Text
1	Jul 03	Mon	Ex. 1A, 1B & 1C-part A: Scientific Investigation	Introduction to ecology	Ch. 52
		Asynchronous Lab	◇ EcoBeaker®: Experimental Design	Biogeography	“
	Jul 05	Wed	Ex. 2A & 2B: Vegetation transects Ex. 1C: Statistical Analysis, part B	Guest Lectures: Terrestrial Climate Biomes	“
		Asynchronous Lab	◇ EcoBeaker®: Patchy Prairies (+ workbook) / Project pitches	Population dynamics & Life history strategies	Ch. 53
2	Jul 10	Mon	Ex. 3A, 3B & 3C: Population size & dispersal Ex. 1C: Statistical Analysis, part C	Community ecology	Ch. 54
		Asynchronous Lab	◇ EcoBeaker®: Population Growth Models	Biodiversity dynamics	“
	Jul 12	Wed	EXAM 1 Ex. 1C: Statistical Analysis, part D; Project groups	Guest Lectures: Niche Partitioning	“
		Asynchronous Lab	◇ EcoBeaker®: Isle Royale	Case Study: Wolves and Moose	
3	Jul 17	Mon	De Anza campus birds; Ex. 4A & 4C: Bird diversity	Guest Lectures: Apex & Keystone Species	
		Asynchronous Lab	◇ EcoBeaker®: Keystone Predator	Ecosystems — energy & water	Ch. 55
	Jul 19	Wed	Field Day: SF Bay Refuge / Baylands	Ecosystem resource cycles	“
		Asynchronous Lab	◇ EcoBeaker®: Top-Down Control	Watershed & stream ecology	
4	Jul 24	Mon	Field Day: Stevens Creek Watershed	CA ecological provinces	<i>Biodiversity of California</i>
		Asynchronous Lab	◇ EcoBeaker®: Intermediate Disturbance Hypothesis	Pollution and ecotoxicology	Ch. 56
	Jul 26	Wed	EXAM 2 Ex. 4C: Bird diversity – habitats 1 & 2	Conservation & restoration	“
		Asynchronous Lab	◇ EcoBeaker®: Limiting Nutrients (+ workbook)	Behavioral biology	Ch. 51
5	Jul 31	Mon	Ex. 5A, 5B, & 5C: Behavioral ecology	Origins & paradigms	Ch. 22
		Asynchronous Lab	◇ EvoBeaker®: Darwinian Snails	Mechanisms of evolution	Ch. 23
	Au 02	Wed	Finish Ex. 5A, 5B, & 5C; Project day	Case Studies: Microevolution mechanisms	“
		Asynchronous Lab	◇ EvoBeaker®: Genetic Drift	Reproductive ecology & sexual selection	“
6	Au 07	Mon	Final research reports/ class presentations	Speciation & diversity	Ch. 24
		Asynchronous Lab	◇ EvoBeaker®: How the Guppy Got Its Spots (+ workbook)	TBA	
	Au 09	Wed	EXAM 3		
		Asynchronous Lab	◇ EvoBeaker®: Sickle-Cell Alleles		