BIOL-006C: Ecology & Evolution

Summer 2025

Week	Date	Day	Lab topic	Asynchronous Lecture topic	Text
1	Jun 30	Mon	Ex. 1A, 1B & 1C-part A: Scientific Investigation	Introduction to ecology	Ch. 52
	Asynchronous Lab		◊ EcoBeaker®: ***Experimental Design***	Biogeography	"
	Jul 02	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 07	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 09	Wed	**EXAM 1** Ex. 1C: Statistical Analysis, part D; Project groups	Ecosystems — energy & water	Ch. 55
	Asynchronous Lab		◊ EcoBeaker®: ***Top-Down Control***	Ecosystem resource cycles	"
3	Jul 14	Mon	De Anza campus birds; Ex. 4A & 4B: Bird diversity	CA ecological provinces	*Biodiversity of California*
	Asynchronous Lab		◊ EcoBeaker®: ***Limiting Nutrients*** (+ workbook)	Watershed & stream ecology	
	Jul 16	Wed	***Field Day*****: Stevens Creek Watershed**	Guest Lectures: Apex & Keystone Species	
	Asynchronous Lab		◊ EcoBeaker®: ***Isle Royale***	Case Study: Wolves and Moose	
4	Jul 21	Mon	***Field Day*****: SF Bay Refuge / Baylands**	Guest Lectures: Niche Partitioning	
	Asynchronous Lab		◊ EcoBeaker®: ***Keystone Predator***	Pollution and ecotoxicology	Ch. 56
	Jul 23	Wed	**EXAM 2** Ex. 4B: Bird diversity – habitats 1 & 2	Conservation & restoration	"
	Asynchronous Lab		◊ EcoBeaker®: ***Nutrient Pollution***	Behavioral biology	Ch. 51
5	Jul 28	Mon	Ex. 5A & 5B: Behavioral ecology	Origins & paradigms	Ch. 22
	Asynchronous Lab		◊ EvoBeaker®: ***Sickle-Cell Alleles***	Mechanisms of evolution	Ch. 23
	Jul 30	Wed	Ex. 5B & 5C: Behavioral ecology	Case Studies: Microevolution mechanisms	"
	Asynchronous Lab		◊ EvoBeaker®: ***Genetic Drift***	Reproductive ecology & sexual selection	"
6	Au 04	Mon	**Final research reports / class presentations**	Speciation & diversity	Ch. 24
	Asynchronous Lab		◊ EvoBeaker®: ***How the Guppy Got Its Spots*** (+ workbook)	Guest Lecture: Connecting Genes to Ecosystems	
	Au 06	Wed	**EXAM 3**		
	Asynchronous Lab		◊ EvoBeaker®: ***Flowers and Trees*** (+ workbook)		