BIOL-006C: Ecology & Evolution

Spring 2026

BIOLOGY–006C.**05Y**: CRN 49174	In-person Labs/Field/Exams/Presentations **Mon & Wed 10:30–1:20**	SC-2108
BIOLOGY–006C.**06Y**: CRN 48859	In-person Labs/Field/Exams/Presentations **Mon & Wed 1:30–4:20**	SC-2108
	Asynchronous Lectures: **2 hrs; twice/week**	On Canvas
Instructor: **Bruce Heyer**	Email: heyerbruce @ deanza.edu Online Office Hours: Tue & Thu 12:30–2:20 pm via Zoom	
BIOL 6C class homepage: http: // www.deanza.edu/faculty/heyerbruce/bio6c.html BIOL 6C course syllabus: https://www.deanza.edu/faculty/heyerbruce/bio6csyllabusSpring.html		

Schedule:

Week	Date	Day	Synchronous Lab & Field topic	Asynchronous Lecture topic	Text
1	Apr 06	Mon	Ex. 1A & 1B: Scientific Investigation ◊ EcoBeaker®: ***Experimental Design***	Introduction to ecology	Ch. 52
	Apr 08	Wed	Ex. 1C: Statistical Analysis, part A. Cheeseman Environmental Studies Area (ESA)	Biogeography	"
2	Apr 13	Mon	Ex. 2A & 2B: Vegetation transects / class data ◊ EcoBeaker®: ***Patchy Prairies*** (+ workbook)	Guest Cast: *Climate Zones* & *Terrestrial Biomes*	"
	Apr 15	Wed	Ex. 1C: Statistical Analysis, part B Project pitches	Population dynamics & Life history strategies	Ch. 53
3	Apr 20	Mon	Ex. 2A+B Report due. Ex. 1C: Statistical Analysis, part C ◊ EcoBeaker®: ***Population Growth Models***	Community ecology	Ch. 54
	Apr 22	Wed	Ex. 3A pre-lab Ex. 3B & 3C: Population size & dispersal.	Biodiversity dynamics	"
4	Apr 27	Mon	Ex. 3 report due. Ex. 1C: Statistical Analysis, part D ◊ EcoBeaker®: ***Top-Down Control***	Guest Cast: *Niche Partitioning and Biodiversity*	"
	Apr 29	Wed	**EXAM 1** Project pitches due Project groups assemble. *Preview*: Stevens Creek ecology Ex. 1C. pt. D report due	Ecosystems — energy & water	Ch. 55

5	May 04	Mon	***Field Day*: Stevens Creek Watershed – Site 1** ◊ EcoBeaker®: ***Keystone Predator***	Local ecology: creeks, slopes, & watersheds	"
	May 06	Wed	Project proposal draft due. Ex. 5A & 5B: Behavioral ecology	Ecosystem resource cycles	"
6	May 11	Mon	***Field Day*: Stevens Creek Watershed – *Site 2*** ◊ EcoBeaker®: ***Limiting Nutrients*** (+ workbook)	CA ecological provinces	*Atlas of the Biodiversity of California*
	May 13	Wed	Ex. 5B: Behavioral ecology, pt.2 Ex. 6A: Report due Project finalized proposal due / materials & logistics	Conservation & restoration	Ch. 56
7	May 18	Mon	**De Anza campus birds** ◊ EcoBeaker®: ***Isle Royale***	Case Study: *Wolves and Moose*	
	May 20	Wed	Ex. 4A & 4B: Bird diversity	Pollution and Ecotoxicology	"
8	May 25	Mon	**HOLIDAY** ◊ EcoBeaker®: ***Nutrient Pollution***	Guest Cast: *Apex Predators & Keystone Species*	
	May 27	Wed	**EXAM 2** | Ex. 4C: Creek bug data – habitats 1 & 2	Behavioral biology	Ch. 51
9	Jun 01	Mon	Ex. 5 Report due. Ex. 5C: Behavioral ecology, pt.3 EvoBeaker®: ***Sickle-Cell Alleles***	Origins & paradigms	Ch. 22
	Jun 03	Wed	***Field Day*: Monterey Bay Aquarium**	Mechanisms of evolution	Ch. 23
10	Jun 08	Mon	Ex. 4C Report due. Project progress reports ◊ EvoBeaker®: ***Genetic Drift***	Reproductive ecology & sexual selection	"
	Jun 10	Wed	Work on projects.	Case Studies: *Microevolution examples & mechanisms*	"
11	Jun 15	Mon	Work on projects. ◊ EvoBeaker®: ***How the Guppy Got Its Spots*** (+ workbook)	Speciation & diversity	Ch. 24
	Jun 17	Wed	**Final research reports/ class presentations**	Guest Cast: *Connecting genes to ecosystems*	
12	Jun 22	Mon Sec 06Y	**EXAM 3** (1:45–3:45)		
	Jun 24	Wed Sec 05Y	**EXAM 3** (9:15–11:15)		