

# BIOL-006C: Ecology & Evolution



Summer 2019

Week	Date	Day	Lecture topic	Text	Lab/Field topic	Homework	
	July 01	Mon	Introduction to ecology	Ch. 52	Ex. 1A & 1B: Scientific Investigation	Finish 1A & 1B	
<b>1</b>	July 02	Tue	Biogeography	"	Ex. 1C: Statistical Analysis, part A Ex. 2A & 2B: Vegetation transects.	Finish 1C. pt. A	
	July 03	Wed	Population dynamics & Life history strategies	Ch. 53	Ex. 2A/B class data Ex. 1C: Statistical Analysis, part B <b>Cheeseman ESA</b> tour.	Finish 1C. pt. B Ex. 2A/B report Ex. 3A pre-lab	
	July 04	Thu	<i>holiday</i>				
	July 08	Mon	Community ecology	Ch. 54	Ex. 1C: Statistical Analysis, part C Ex. 2A+B Report due. ◇ EcoBeaker®: [pre-lab] <i>Understanding Population Growth Models</i>	Finish 1C. pt. C	
<b>2</b>	July 09	Tue	Biodiversity	"	Ex. 3B & 3C: Population size & dispersal.	Ex. 1C. pt. D Project pitches	
	July 10	Wed	<i>Field Day: Villa Montalvo</i>			Montalvo worksheet	
	July 11	Thu	<b>EXAM 1</b>		Ex. 1C. pt. D Report due Montalvo worksheet due Project pitches	Ex. 3B & 3C Project proposal Ex. 4A pre-lab.	
<b>3</b>	July 15	Mon	Ecosystems	Ch. 55	Project proposal Ex. 3B & 3C report due. ◇ EcoBeaker®: <i>Isle Royal</i>	Finish project prospectus	
	July 16	Tue	Landscape & succession	"	Project prospectus due. Ex. 4B: Biodiversity–invert pitfalls Bug hunt	Work on field book, parts 1–3. Start projects.	
	July 17	Wed	<i>Field Day: Stevens Creek Watershed</i>			Creek worksheet Work on field book.	
	July 18	Thu	CA ecological provinces	<i>Atlas of the Biodiversity of California</i>	<b>SPECIES QUIZ 1</b> Field Book, parts 1–3 due.	Work on projects.	

<b>4</b>	July 22	Mon	Conservation & restoration	Ch. 56	Creek worksheet due. Ex. 5A: Behavioral Ecology. Start Ex. 5B: Behavior & Dispersal. ◇ EcoBeaker®: <i>Keystone Predator</i>	Ex. 4B: group data Work on projects.
	July 23	Tue	Behavioral biology	Ch. 51	Finish Ex. 5B Ex. 4B: Class data Ex. 4C: Biodiversity–birds	Work on projects.
	July 24	Wed	<i>Field Day: SF Bay Refuge / Charleston Slough / Baylands</i> + Ex. 4C			Baylands worksheet
	July 25	Thu	<b>EXAM 2</b>		Baylands worksheet due Ex. 4C: Biodiversity–birds	Ex. 4C: group data Work on projects.
<b>5</b>	July 29	Mon	Origins & paradigms	Ch. 22	Ex. 5A+B Report due. Ex. 4C: Class data – habitats 1 & 2 ◇ EvoBeaker®: <i>Darwinian Snails</i>	Ex. 4C: class data Work on projects.
	July 30	Tue	Mechanisms of evolution	Ch. 23	Ex. 4B: Report due. Ex. 6: Predator–Prey Interactions ◇ EvoBeaker®: <i>Experimenting with Snails</i>	Finish Ex. 4C Work on reports & field book.
	July 31	Wed	<i>Field Day: SF Zoo</i> (9:45 am) + Ex. 5C: Ethogram			Finish Ex. 5C Work on field book. Work on projects.
	Aug 01	Thu	Reproductive ecology	“	<b>SPECIES QUIZ 2</b> Field Book, parts 4–7 due. Ex. 5C Report due. (In Field Book.) Ex. 6 Report due	Work on projects.
<b>6</b>	Aug 05	Mon	Speciation & diversity	Ch. 24	Ex. 4C Report due Project draft consultations ◇ EvoBeaker®: <i>Sickle Cell Alleles</i>	Final work on project & presentation.
	Aug 06	Tue	Final research reports/ class presentations			
	Aug 07	Wed	<i>Field Day: Monterey Bay Aquarium</i>			Subtidal ecology worksheet
	Aug 08	Thu	<b>EXAM 3</b>		Subtidal ecology worksheet due	

