

Lecture, Laboratory, Reading Schedule
BIO10 Introduction to Principles of Biology
Lecture (PC657): M/W, 12-1:20pm
SP23, Secs 6338,7638
Lab (PC313): M or W, 2:00-4:45pm
Charles Galt: MW 11:00-11:45 (PC667), cgalt@santarosa.edu, 707-372-7263
[FINAL version: 2023-01-06]
Paul Bradley: Tu 10-12 (Zoom), pbradley@santarosa.edu
Readings in Simon et al., *Campbell essential biology with physiology* (6e, 2019) & *Petaluma Campus BIO10 Lab Manual* (July 2019)

Wk	Date (M/W)	Lecture (All meet M & W in Call PC657, 12-1:20pm) Charles Galt	Ch. Text	Quiz Due (W)	Lab (M: 6338, W: 7638) (PC313, 2:00-4:45pm) Paul Bradley	Lab Man. Chapt.
1	Jan 16	MLK Holiday, Campus Closed			Wed Only, Instructor choice	
	18	01. Intro: Biology, Science, Ecology, Evolution	1			
2	23	02. Basic Chemistry (Chem Homework)	2		Biological concepts [4-10, 16-20, 57-59]	1
	25	02. Chemistry, Water (Chem Homework Due)		1		
3	30	03. Macromolecules	3		Water, Electrolysis [28-34]	2
	Feb 01	04. Cell Structure	4	2		
4	06	05. Cell Physiology	5		Enzymes, Bacteria [46-48, 80-82, 299-306]	3
	08	06. Cellular Respiration, 1	6	3		
5	13	06. Cellular Respiration, 2	6		LAB EXAM 1 (Concepts, Water, Enzymes)	
	15	07. Photosynthesis	7	4		
6	20	Washington's Day, Campus Closed			Wed Only, Instructor choice	
	22	08. Protein Synthesis	10	5		
7	27	LECTURE EXAM 1 (Chs. 1-6; 4 wks)			Microscopes & Cells, Bacteria [4, 55-73]	4
	Mar 01	09. Cell Reproduction 1: Mitosis (pp. 120-129)	8	6		
8	06	10. Cell Reproduction 2: Meiosis (pp. 130-143)	8		Mitosis [120-129, 141-143]	5
	08	11. Ecology 1: Introduction, Climate	18	7		
9	13	12. Ecology 2: Populations, Invasions	19		Meiosis [130-143]	6
	15	13. Ecology 3: Communities, Ecosystems	20	8		
	20-24	SPRING BREAK				
10	27	14. Ecology 4: Human Impact	18-20		LAB EXAM 2 (Scopes/Cells, Mitosis, Meiosis, Bacteria)	
	29	15. Genetics	9	9		
11	Apr 03	LECTURE EXAM 2 (Chs. 7, 8, 10, 18-20; 4 wks)			Genetics [144-169]	7
	05	15. Genetics, 16. Evolution	9, 13	10		
12	10	16. Evolution 1: Mechanisms, Selection	13, 14		Evolution [16-20, 242-267]	8
	12	16. Evolution 1: Natural Selection		11		
13	17	17. Evolution 2: Types of Evidence	13, 14		Protists, Pond water [137, 307-313]	9
	19	18. Plant Anatomy, Physiology <i>(04/23 last day drop with W)</i>	28, 29	12		
14	24	18. Plant Anatomy, Physiology	28, 29		Fungi [328-335]	10
	26	19. Animal Systems 1: Tissues, Neurons, S/V	21, 27	13		
15	May 01	20. Animal Systems 2: Homeostasis, Hormones	21, 25		Plants [316-327, 333-335]	11
	03	21. Digestion, Nutrition	22	14		
16	08	LECTURE EXAM 3 (Chs. 9, 13/14, 28/29, 21/25/27; 4.5 wks)			Animals [336-360, 368-370]	12
	10	22. Heart, Circulation (pp. 496-502)	23	15		
17	15	22. Blood, Disease (pp. 503-507)	23		LAB EXAM 3 (Evolution, Protists, Plants, Fungi, Animals)	
	17	23. Gas Exchange (pp. 507-515)	23	16		
18	22	Monday: All late Mastering Assignments & all Extra Credit due by midnight tonight				
	May 24, 10am-12:45pm	Wednesday: COMPREHENSIVE LECTURE FINAL EXAM (3 hrs) (Covers entire lecture course and certain lab materials - Note earlier starting time, 10am! See Canvas for Study Tips) Final Exam is required to pass BIO10				