

BIO10 Lecture, Laboratory, & Reading Schedule [Class is fully online/synchronous]					Introduction to Principles of Biology	
Lec: M/W, 12-1:20pm (Zoom)			[DRAFT version: 2020-06-14]		FA20, Section 2314	
Lab: W, 2:30-5:15pm (Zoom)			Charles Galt: MW, 11-11:45am (Zoom), after class		cgalt@santarosa.edu, 707-372-7263	
Readings in Simon et al. (Campbell essential biology with physiology, 6e, 3019) & Petaluma Campus Lab Manual (July 2019)						
Week	Date (M/W)	Lecture (M&W, 12-1:20pm, Zoom online)	Ch. Text	Quiz (W)	Lab [pp in text] (W 2:30-5:15pm, Zoom online)	Ch. Lab Manual
1	Aug 17	01. Intro: Biology, Science, Ecology, Evolution	1		Biological concepts [4-10, 16-20, 57-59]	1
	19	02. Basic Chemistry (Chem Homework Issued)	2			
2	24	02. Chemistry, Water (Chem Homework Due)	2		Water, Electrolysis [28-34]	2
	26	03. Macromolecules	3	1		
3	31	04. Cell Structure	4		Enzymes, bacteria [46-48, 80-82, 299-306]	3
	Sep 02	05. Cell Physiology	5	2		
4	07	Labor Day Holiday (No Classes)			Great Cheeto Burn! (Energy content of 'food')	Handout
	09	06. Cellular Respiration, 1	6	3		
5	14	06. Cellular Respiration, 2	6		LAB EXAM 1 (Concepts, Water, Enzymes, Cheeto burn)	
	16	07. Photosynthesis	7	4		
6	21	LECTURE EXAM 1 (Chs. 1-6)			Microscopes & Cells [4, 55-73], bacteria	4
	23	08. Protein Synthesis	10	5		
7	28	09. Cell Reproduction 1: Mitosis (pp. 120-129)	8		Mitosis [120-129, 141-143]	5
	30	10. Cell Reproduction 2: Meiosis (pp. 130-143)	8	6		
8	Oct 05	11. Ecology 1: Introduction, Climate	18		Meiosis [130-143]	6
	07	12. Ecology 2: Populations, Invasions	19	7		
9	12	13. Ecology 3: Communities, Ecosystems	20		LAB EXAM 2 (Scopes/Cells, Mitosis, Meiosis, Bacteria)	
	14	14. Ecology 4: Human Impact	18-20	8		
10	19	LECTURE EXAM 2 (Chs. 7,8,10,18-20)			Genetics [144-169]	7
	21	15. Genetics	9	9		
11	26	15. Genetics	9		Evolution [16-20, 242-267]	8
	28	16. Evolution 1: Mechanisms, Selection	13, 14	10		
12	Nov 02	16. Evolution 1: Natural Selection	13, 14		Protists, Ponds [137, 307-313]	9
	04	17. Evolution 2: Types of Evidence	13, 14	11		
13	09	18. Plant Anatomy, Physiology	28, 29		Veterans Day Holiday (No Lab)	
	11	Veterans Day Holiday (No Classes)				
14	16	18. Plant Anatomy, Physiology	28, 29		Plants [316-327, 333-335]	11
	18	19. Animal Systems 1: Tissues, Neurons, S/V	21, 27	12		
15	23	20. Animal Systems 2: Homeostasis,Hormones	21, 25		Fungi [328-335]	10
	25	21. Digestion, Nutrition	22	13		
16	30	LECTURE EXAM 3 (Chs. 9, 13/14, 28/29, 21/25/27)			Animals [336-360, 368-370]	12
	Dec 02	22. Heart, Circulation	23	14		
17	07	22. Circulation	23		LAB EXAM 3 (Protists, Fungi, Plants, Animals)	
	09	23. Gas Exchange (pp. 507-515)	23	15		
18	Wed Dec 16, 10am-12:45pm	3-HR COMPREHENSIVE FINAL EXAM (Covers entire lecture course and certain lab materials - Note earlier meeting time, 10am! See Canvas for Study Tips) Final Exam is required to pass BIO10				