

BIOLOGY 14L Organisms & Populations Spring 2009

Lecture and Exam Schedule

Class Date	Topic	Text Reading
1 Th 1/15	Course Introduction	Chap.
	Headings/Pages	
M 1/19	University Holiday (MLK Jr. Birthday)—no class	
UNIT 1: Population and Evolutionary Biology		
2 T 1/20	Ecology, genetics, natural selection	1.2,1.4,15.1-15.3,52.2
3 W 1/21	TUFTS MONDAY! 9:30 genetic variation	
	16.6,24.1,24.4	
4 Th 1/22	Population genetics	24.5-25.1
5 M 1/26	Population consequences of evolutionary factors	25.2-25.3
6 T 1/27	Population consequences, cont'd.	25.4-25.6
7 Th 1/29	Melanism, mimicry	24.3,pp.1164-66,1202-03
8 M 2/2	Long-term coevolution and Mutualism	1205-09
9 T 2/3	Speciation 1: what are species?	26.2-26.3
10 Th 2/5	Speciation 2: consequences of isolation, hybridization	26.4
11 M 2/9	Speciation 3: chromosomal & sympatric speciation	25.6,12.1
12 T 2/10	Evolutionary histories of speciation: phylogeny	27.1
13 Th 2/12	First Exam (25 questions at 4 pts each)	
M 2/16	University holiday (President's Day)—no class	
UNIT 2: Plant Biology		
14 T 2/17	Greenworld – cell-to-cell water movement in plants	814-826
15 Th 2/19	TUFTS MONDAY-9:30! Pulling water up trees without a vacuum	819-826

16	M	2/23	Drying without dying: response to climate change and drought	827
17	T	2/24	Sucrose is king: phloem as el camino real	828-831
18	Th	2/26	Sucrose economy among sources and sinks	828-831
19	M	3/2	Plant response to the environment: auxin as chemical signal	862-874
20	T	3/3	Flowering: evidence for signal transduction	866-869; 897-899
21	Th	3/5	Fruit growth and ripening: sugarspots in fields of gold	906-907
22	M	3/9	Ethylene, the gaseous hormone	881
23	T	3/10	Plant security: defenses that keep the world green	884-889;
			1204-5	
24	Th	3/12	Second Exam	

Spring Break 3/14--3/22

UNIT 3: Animal (Mammalian) Physiology

25	M	3/23	Animal Physiology--Homeostasis, temperature regulation	pp.925-931
26	T	3/24	Gas exchange – mammals 1	44.2-44.3
27	Th	3/26	Gas exchange – mammals 2	44.2-44.4
28	M	3/30	Gas exchange – mammals 3	44.3-44.4
29	T	3/31	Mammalian kidney 1	42.4
30	Th	4/2	Mammalian kidney 2	42.4
31	M	4/6	Mammalian kidney 3	42.4
32	T	4/7	Intro to circulatory system	44.5
33	Th	4/9	Heart cycle	44.5
34	M	4/13	Heart excitation	44.5
35	T	4/14	Vascular physiology	44.5
36	Th	4/16	Blood pressure control	44.5
	M	4/20	University Holiday (Patriot's Day)—no class	
37	T	4/21	Third exam (25 questions at 4 pts each)	

38	Th	4/23	Human exercise physiology	44.5
39	M	4/27	Human exercise physiology, course evaluations	44.5
40	W	5/6	Comprehensive final exam 3:30-5:30 —location TBA- 150 points	