

NOTE: READING LISTED HERE ARE FOR MOLLES, 4<sup>TH</sup> EDITION

<b>Dates</b>	<b>Lecture Topics</b>	<b>Reading – 4<sup>th</sup> Ed.</b>
<u>Week 1</u>		
W, 4/1	Introduction to the class	Chap. 1
	<b>The Carbon Cycle and Global Change</b>	
F, 4/3	Human changes to global element cycles	Chap. 23: 531-3; 539-40; 545-9
<u>Week 2</u>		
M, 4/6	The carbon cycle and production	Chap. 18: 411-24 Chap. 19: 432-436
W, 4/8	C cycle continued: Decomposition	Ch. 19: 436-442
F, 4/10	Plants – Photosynthesis, effects of resource availability	134-9, 146, 148 (6.3), 150-2
<u>Week 3</u>		
M, 4/13	Photosynthesis, continued ( <b>Homework 1</b> )	
W, 4/15	Climate and biomes	Chap. 2
F, 4/17	Adaptation and tolerance	
<u>Week 4</u>		
M, 4/20	Temperature regulation and adaptation – animals and plants	Chap. 4
W, 4/22	Water regulation and adaptation – animals and plants	Chap. 5
<b>F, 4/24</b>	<b>Midterm I</b> – Carbon cycle and global change	
<u>Week 5</u>	<b>Biodiversity</b>	
M, 4/27	Water – continued	
W, 4/29	Land use change and the biodiversity crisis; concepts in ecological diversity	Ch. 23: 540-544; Ch. 16: 371-5
F, 5/1	Diversity, continued; Interspecific competition	Ch. 13
<u>Week 6</u>		
M, 5/4	Interspecific competition, cont'd	
W, 5/6	Predation, parasitism, disease	Ch. 14 + 139-144, 146-8
F, 5/8	Mutualism	Ch. 15
<u>Week 7</u>		
M, 5/11	Factors regulating diversity and community structure I	Ch. 16: 377-89
W, 5/13	Ecosystem energetics and secondary production ( <b>Homework 2</b> )	Ch. 17, Ch. 18.: 424-9
F, 5/15	Factors regulating diversity and community structure II	Ch. 22
<u>Week 8</u>		
M, 5/18	Community change: disturbance and succession	Ch. 20
	<b>Population Growth</b>	
W, 5/20	Human population growth; Population distribution and abundance	Ch. 9 + 266-9
<b>F, 5/22</b>	<b>Midterm II</b> – Biodiversity	
<u>Week 9</u>		
M, 5/25	<i>No class – Memorial Day</i>	
W, 5/27	Intrinsic rates of increase, exponential and logistic growth	Ch. 11
F, 5/29	Life tables	Ch. 10
<u>Week 10</u>		
M, 6/1	Life tables, con't ( <b>Homework 3</b> )	
W, 6/3	Life history strategies	Ch. 12
F, 6/5	Life history strategies, con't	
<u>Week 11</u>		
<b>Th, 6/11</b>	<b>Final exam:</b> 10:30 a.m. -12:30 p.m.	