

BIO 4130: Ecology (WI)
Lecture Schedule, Winter 2018

Date	Topic	Reading
<i>Background</i>		
Tue, Jan. 9	Course administration and introductions	Chapter 1
Thu, Jan. 11	Introduction to ecology and scientific inference	Chapter 1
<i>Abiotic factors in ecology</i>		
Tue, Jan. 16	Variation in light and nutrients	Chapter 7
Thu, Jan. 18	Variation in temperature and water	Chapter 5, 6
Tue, Jan. 23	Large-scale variation in energy, climate	Chapter 22-24
<i>Organismal and population ecology</i>		
Thu, Jan. 25	Population patterns, growth and regulation	Chapter 8,10
Tue, Jan. 30	Population patterns, growth and regulation (cont.)	Chapter 8,10
Thu, Feb. 1	Life History, demography, life tables	Chapter 9, 10 (pp 205-208)
Tue, Feb. 6	Behavioral ecology	Chapter 4
Thu, Feb. 8	Natural selection and evolution	Chapter 2,3
Tue, Feb. 13	EXAM 1	
<i>Species interactions</i>		
Thu, Feb. 15	Competition	Chapter 11
Tue, Feb. 20	Predation and herbivory	Chapter 13, 14
Thu, Feb. 22	Parasitism and disease ecology	Chapter 15
<i>Community ecology</i>		
Tue, Feb. 27	Facilitation	Chapter 12
Thu, Mar. 1	The nature of communities	Chapter 16, 17
Tue, Mar. 6	Temporal dynamics (succession and assembly)	Chapter 20
Thu, Mar. 8	Determinants of species diversity	Chapter 18
Mar. 13 - 16	NO CLASS - SPRING BREAK	
Tue, Mar. 20	Determinants of species diversity (cont.)	Chapter 18
<i>Ecosystem ecology</i>		
Thu, Mar. 22	EXAM 2	
Tue, Mar. 27	Production, food webs and energy flow	Chapter 19, 25
Thu, Mar. 29	Biogeochemical cycles	Chapter 27
<i>Landscape ecology</i>		
Tue, Apr. 3	Island Biogeography & Landscape Ecology	Chapter 21 & 8
<i>Human impacts on ecological systems</i>		
Tue, Apr. 5	Environmental contaminants and ecotoxicology	TBA
Thu, Apr. 10	Conservation biology	TBA
Tue, Apr. 12	Global Change biology	TBA: Ch5 (5.3)
Thu, Apr. 17	Global Change biology	TBA
Thu, Apr. 19	Course synthesis and review	
Tue, May 1	FINAL EXAM, 8:00 am – 10:00 am	