

BIO 4130: GENERAL ECOLOGY
Lecture Schedule, Winter 2017

Date	Topic	Reading
<i>Background</i>		
Tue, Jan. 10	Course administration and introductions	Chapter 1
Thu, Jan. 12	Introduction to ecology and scientific inference	Chapter 1
<i>Abiotic factors in ecology</i>		
Tue, Jan. 17	Variation in light and nutrients	Chapter 7
Thu, Jan. 19	Variation in temperature and water	Chapter 5, 6
Tue, Jan. 24	Large-scale variation in energy, climate	Chapter 22-24
<i>Organismal ecology</i>		
Thu, Jan. 26	Behavioral ecology	Chapter 4
Thu, Feb. 9	Natural selection and evolution	Chapter 2,3
<i>Species interactions</i>		
Tue, Jan. 31	Competition	Chapter 11
Thu, Feb. 2	Predation and herbivory	Chapter 13, 14
Tue, Feb. 7	Parasitism and disease ecology	Chapter 15
Tue, Feb. 14	EXAM 1	
<i>Population ecology</i>		
Thu, Feb. 16	Population patterns, growth and regulation	Chapter 8,10
Tue, Feb. 21	Population patterns, growth and regulation (cont.)	Chapter 8,10
Thu, Feb. 23	Life History, demography, life tables	Chapter 9, 10 (pp 205-208)
<i>Community ecology</i>		
Tue, Feb. 28	Facilitation	Chapter 12
Thu, Mar. 2	The nature of communities	Chapter 16, 17
Tue, Mar. 7	Temporal dynamics (succession and assembly)	Chapter 20
Thu, Mar. 9	Determinants of species diversity	Chapter 18
Mar. 13 - 17	NO CLASS - SPRING BREAK	
Tue, Mar. 21	Determinants of species diversity (cont.)	Chapter 18
Thu, Mar. 23	EXAM 2	
<i>Ecosystem ecology</i>		
Tue, Mar. 28	Production, food webs and energy flow	Chapter 19, 25
Thu, Mar. 30	Biogeochemical cycles	Chapter 27
<i>Landscape ecology</i>		
Tue, Apr. 4	Island Biogeography & Landscape Ecology	Chapter 21 & 8
<i>Human impacts on ecological systems</i>		
Thu, Apr. 6	Environmental contaminants and ecotoxicology	TBA
Tue, Apr. 11	Conservation biology	TBA
Thu, Apr. 13	Global Change biology	TBA: Ch5 (5.3)
Tue, Apr. 18	Global Change biology	TBA
Thu, Apr. 20	Course synthesis and review	
Tue, May 2	FINAL EXAM, 8:00 am – 10:00 am	