Fundamentals of Ecology (BIO/ESS 148) :: Schedule, Spring 2022

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Please note that the schedule is subject to change at any time. Check back frequently for updates!
M = Monday
W = Wednesday
L = Lecture
D = Discussion

Date	Lect/Disc_#	Lecture_Topic	Description	Required Readings
1/19	**W-L1**	Introduction	Levels of organization	Bowman Ch. 1
		Disc –	***No Discussion Section***	
1/24	**M-L2**	Scales	Scales, models, and R; Intro to R{:target="_blank"}	Leopold; excerpts{:target="_blank"}
1/26	**W-L3**	Biomes	Distinguishing among Earth's biomes	Bowman Ch. 3
	D1	Disc 1	Investigating ecological problems with R{:target="_blank"}	What does ecology have to do with me?{:target="_blank"}
1/31	**M-L4**	Energy 1	Variation in temperature and water	Bowman Ch. 4
2/2	**W-L5**	Energy 2	Energetic pathways in ecology	Bowman Ch. 5

Date	Lect/Disc_#	Lecture_Topic	Description	Required Readings
	D2	Disc 2	Temperature as an ecological constraint{:target="_blank"}	Gunderson & Leal 2015{:target="_blank"}
2/7	**M-L6**	Allometry 1	Allometry & Macroecology 1	West & Brown{:target="_blank"}
2/9	**W-L7**	Allometry 2	Allometry & Macroecology 2	
	D3	Disc 3	Allometry and metabolic scaling{:target="_blank"}	
2/14	**M-L8**	Evolution 1	Ecology as the driver of natural selection	Bowman Ch. 6
2/16	**W**	***Exam I***		
	D4	Disc 4	Evolution by Natural Selection{:target="_blank"}	
2/21	**M**		***President's Day – No Class***	
2/23	**W-L9**	Evolution 2	Evolutionary change	Bowman Ch. 6
		Disc –	***No Discussion Section***	
2/28	**M-L10**	Life History	Life history diversity & tradeoffs	
3/2	**W-L11**	Behavior	Behavioral ecology	Bowman Ch. 8, Sinervo{:target="_blank"}
	D5	Disc 5	Life Histories{:target="_blank"}	

Date	Lect/Disc_#	Lecture_Topic	Description	Required Readings
3/7	**M-L12**	Populations 1	Density dependence and population dynamics	Bowman Ch. 10
3/9	**W-L13**	Populations 2	Logistic Growth & Discrete dynamics	
	D6	Disc 6	Exponential and Logistic Growth{:target="_blank"}	
3/14	**M-L14**	Competition	Intro to competition	Bowman Ch. 14
3/16	**W**	***Exam II***		
	D7	Disc 7	Exponential and Logistic Growth 2{:target="_blank"}	
3/21	**M**		***Spring Break – No Class***	
3/23	**W**		***Spring Break – No Class***	
3/28	**M-L15**	Competition 2	Competition dynamics 1	
3/30	**W-L16**	Competition 3	Competition dynamics 2	
	D8	Disc 8	Lotka-Volterra competition dynamics{:target="_blank"}	
4/4	**M-L17**	Predation 1	Herbivory and Predation	Bowman Ch. 12
4/6	**W-L18**	Predation 2	Predation dynamics	

Date	Lect/Disc_#	Lecture_Topic	Description	Required Readings
	D9	Disc 9	Lotka-Volterra predation dynamics{:target="_blank"}	
4/11	**M-L19**	Disease	The dynamics of disease	Bowman 13.4-end, Blackwood to 2.2.2,R0 is just an average
4/13	**W-L20**	No class		
	D10	Disc 10	Dynamics of disease{:target="_blank"}	
4/18	**M-L21**	Parasitism	Parasites and parasitoids	Bowman Chap. 13
4/20	**W**	***Exam III***		
	D11	Disc –	None	
4/25	**M-L22**	Interactions 1	Mutualisms	Bowman Chap. 15
4/27	**W-L23**	Interactions 2	Food webs	Bowman Chap. 21
	D12	Disc 11	Species interaction networks{:target="_blank"}	
5/2	**M-L24**	Communities 1	Island biogeography	Bowman Chap. 18.3
5/4	**W-L25**	Communities 2	Ecological communities	Bowman Chap. 16.2-16.3
	D13	Disc 12	Island biogeography{:target="_blank"}	
5/7	**Sat**	***FINAL EXAM***	Comprehensive (11:30-2:30 PM)	