

BIO B51: Evolutionary Biology**TENTATIVE Reading/Lecture Schedule (Updated 10 September 2012)**

Date	Lecture #	Topic	Readings (Freeman & Herron, 4th ed)
Tues 11 Sept	--	Course introduction	Chapter 3 (p. 73-96; optional: p. 97-105)
Thurs 13 Sept	1	Intro to Darwinian Evolution	
Tues 18 Sept	2	Evidence for Evolution 1	Chapter 2 (37-49 & 53-65)
Thurs 20 Sept	3	Evidence for Evolution 2	
Thurs 20 Sept	Video 1 online: 'Evolution: Great Transformations'		
Tues 25 Sept	4	Evolutionary Analysis 1: Experiment & Observation	Chapter 10 (p. 363-375)
Tues 25 Sept	Commit to Marking Scheme by midnight on Blackboard		
Thurs 27 Sept	5	Evolutionary Analysis 2: Phylogeny & Comparative method	Chapter 4 (p. 111-119), Chapter 10 (p. 376-379)
Thurs 27 Sept Tutorial 1	6	5:00 – 5:30pm: Marking scheme B: Group registration & assignment overview	
Tues 2 Oct	7	Generating variation: Mutation	Chapter 5 (p. 143-166)
Thurs 4 Oct	8	Mechanisms of Evolution 1: Hardy Weinberg & Mutation	Chapter 6 (p. 210-218)
Tues 9 Oct	9	Mutation & Selection	Chapter 6 (p. 169-191, 194-207)
Thurs 11 Oct	10	Mechanisms 2: Patterns of Selection	
Tues 16 Oct	11	Mechanisms 3: Migration & Drift	Chapter 7 (p. 223-228, 230-242, & 264-276)
Thurs 18 Oct	12	Mechanisms 4: Drift & Non-random mating	
Thurs 18 Oct Tutorial 2	Review Session, 5:00 – 6:00pm		
Tues 23 Oct	Video 2 online: 'Evolution: The Eternal Arms Race'		
Tues 23 Oct	13	Case study: HIV	Chapter 1 (p. 3-30); Chapter 6 (p. 191-194)
Thurs 25 Oct	14		
Thurs 25 Oct	Midterm Exam 1 (Lectures 1 – 12, Video 1), 5pm to 7pm		
Tues 30 Oct	15	Quantitative genetics 1: Heritability	Chapter 9 (p. 319-324 & 333-338)
Thurs 1 Nov	Marking Scheme B: Writing assignment due at the START of lecture		
Thurs 1 Nov	16	Misuse of heritability	Chapter 6 (p. 208-210); Chapter 9 (p. 350-355)
Tues 6 Nov	17	Quantitative genetics 2: Response to selection	Chapter 9 (p. 338-350)
Thurs 8 Nov	18	Lecture catch-up	
Tues 13 Nov	19	Modes of Selection & speciation 1	Chapter 16 (p. 605-633)
Thurs 15 Nov	20	Speciation 2	
Thurs 15 Nov	Video 3 online: 'Evolution: Extinction!'		
Tues 20 Nov	21	Sexual selection 1	Chapter 11 (p. 401-425)
Thurs 22 Nov	22	Sexual selection 2	
Tues 27 Nov	23	Evolution of Aging	Chapter 13 (p. 483-502)
Thurs 29 Nov	24	Evolution of Human Health & Novel Environments	Chapter 14 (550 – 560)
Dec 4 – Dec 6	Study Break		
Exam Period 7 – 21 Dec	FINAL EXAM (all material, including videos) ~2/3 of exam: Lecture#13 – 24, Videos 2 & 3 ~1/3 of exam: cumulative, integrative questions Bring non-programmable calculator. Date/time TBA, see: http://www.utoronto.ca/~registrar/		