BIOLOGY 355 – EVOLUTION A01 10419 Fall 2020

LECTURE SCHEDULE

Day	Date	Lecture Topic	Text chapter
1	Sept 9	1. Introduction/history of evolutionary thought	1
2	Sept 11	2. Earth's history: early events	17
3	Sept 15	3. Earth's history: fossil record	17
4	Sept 16	4. Phylogenetic analysis I: concepts	2,16
5	Sept 18	5. Phylogenetic analysis II: resolving complexities/contradictions	16
6	Sept 22	6. Natural selection and adaptation	3
7	Sept 23	7. Origins of genetic variation	4
8	Sept 25	MIDTERM EXAM #1	
9	Sept 29	8. Genetics of natural selection	5
10	Sept 30	9. Variable natural selection: selection over time and space	5
11	Oct 2	10. Population genetics and genetic drift	7
12	Oct 6	11. Genetic drift, natural selection and inbreeding	7
13	Oct 7	12. Gene flow	8
14	Oct 9	13. Dispersal and geographic ranges	8
15	Oct 13	MIDTERM EXAM #2	
16	Oct 14	14. Quantitative traits and phenotypic evolution	6
17	Oct 16	15. Constraints, plasticity and the genetics of quantitative traits	6
18	Oct 20	16. Species and speciation I	9
19	Oct 21	17. Species and speciation II	9
20	Oct 23	18. Evolution of sex	10
21	Oct 27	19. Sex ratios, sexual selection	10
22	Oct 28	MIDTERM EXAM #3	
23	Oct 30	20. Life history evolution	11
24	Nov 3	21. Cooperation and conflict I	12
25	Nov 4	22. Cooperation and conflict II	12
26	Nov 6	23. Coevolution: predators and prey	13
	Nov 10	READING BREAK	
	Nov 11	READING BREAK	
27	Nov 13	24. Coevolution: mutualism, competition, mimicry	13
28	Nov 17	25. Evolution of genes and genomes I	14
29	Nov 18	MIDTERM EXAM #4	
30	Nov 20	26. Evolution of genes and genomes II	14
31	Nov 24	27. Evolution and development I	15
32	Nov 25	28. Evolution and development II	15
33	Nov 27	29. Evolution and development III	15
34	Dec 1	30. Evolution and biogeography	18
35	Dec 3	31. Phylogeography	18
36	Dec 4	32. Macroevolution	20