

BIOLOGY 355 – EVOLUTION A01 10419 Fall 2020

Lectures: PowerPoint presentations online.

Zoom sessions (office hrs/chat) are in scheduled course time F 12:30-1:20 pm.

Midterm exams can be written at any time on the scheduled days.

LECTURE SCHEDULE

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

Text: Futuyma, D. J. & M. Kirkpatrick. 2017. Evolution, 4th ed. Sinauer Associates, Inc.
Course website: on Brightspace. Recorded lectures will be posted here.

GRADING FOR THIS COURSE:

Midterm Exam #1.....	Friday, September 25.....	15%
Midterm Exam #2.....	Tuesday, October 13.....	15%
Midterm Exam #3.....	Wednesday, October 28.....	15%
Written assignment.....	due Tuesday, November 3.....	15%
Midterm Exam #4.....	Wednesday, November 18.....	15%
Final Exam	December exam period	25%

Assignment of course grades (see UVic Undergraduate Calendar):

A+ (90-100%)	B- (70-72%)
A (85-89%)	C+ (65-69%)
A- (80-84%)	C (60-64%)
B+ (77-79%)	D (50-59%)
B (73-76%)	F (0-49%)

Requests for academic concession must be accompanied by valid documentation from a medical doctor, UVic Counseling Services, or a member of the UVic coaching staff.

Academic Integrity – Please read UVic’s policy on academic integrity here:

<https://www.uvic.ca/students/academics/academic-integrity/>

UVic is committed to promoting, providing and protecting a supportive and safe learning and working environment for all its members.