

BIOLOGY 355 – EVOLUTION

A01 (10371) Fall 2019

LECTURER: Dr. Geraldine A. Allen

TA (for marking): TBA

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Lectures: Elliott 168
Monday & Thursday, 8:30-9:50 am

LECTURE SCHEDULE

<u>Date</u>		<u>Lecture Topic</u>	<u>Chapter in Text</u>
<u>Sept 5</u>	1	The origins of evolutionary thinking	1
<u>Sept 9</u>	2	A brief history of life on Earth	17
<u>Sept 12</u>	3	The Tree of Life: phylogenetic analysis	2,16
<u>Sept 16</u>	4	Adaptation and natural selection	3
<u>Sept 19</u>	5	Mutations and the origins of variation	4
<u>Sept 23</u>	6	Natural selection in detail	5
<u>Sept 26</u>	7	Genetic drift and gene flow	7,8
<u>Sept 30</u>	8	Population genetics exercise (class demo)	
<u>Oct 3</u>		MIDTERM EXAM I	
<u>Oct 7</u>		Dispersal and spatial pattern	8
<u>Oct 10</u>	9	Quantitative traits and phenotypic evolution	6
<u>Oct 14</u>	10	THANKSGIVING	
<u>Oct 17</u>	11	Species and speciation	9
<u>Oct 21</u>	12	Evolution of sex	10
<u>Oct 24</u>	13	Sex ratios, sexual selection	10
<u>Oct 28</u>	14	Life history evolution	11
<u>Oct 30</u>		WRITEN ASSIGNMENT DUE	
<u>Oct 31</u>	15	Cooperation and conflict	12
<u>Nov 4</u>		MIDTERM EXAM II	
<u>Nov 7</u>	16	Coevolution	13
<u>Nov 11</u>		READING BREAK	
<u>Nov 14</u>	17	Evolution of genes and genomes I	14
<u>Nov 18</u>	18	Evolution of genes and genomes II	14
<u>Nov 21</u>	19	Evolution and development I	15
<u>Nov 25</u>	20	Evolution and development II	15
<u>Nov 28</u>	21	Evolution over space and time	17,19
<u>Dec 2</u>	22	Macroevolution	20

Text: Futuyma, D. J. & M. Kirkpatrick. 2017. Evolution, 4th ed. Sinauer Associates, Inc.

Course website: on CourseSpaces. Materials from the lectures (PowerPoint slides etc.) will be posted here. However, you are responsible for ALL material presented in lecture.

GRADING FOR THIS COURSE:

Midterm exam I (October 3)	27.5%
Written assignment (due October 31)	10.0%
Midterm exam II (November 4).....	27.5%
Final exam (December exam period).....	35.0%

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://web.uvic.ca/calendar2019-09/undergrad/info/regulations/academic-integrity.html>.

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