

BIOLOGY 355 – EVOLUTION

A01 (10393) Fall 2017

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Lectures: ECS 116
Monday & Thursday, 8:30-9:50 am

LECTURE SCHEDULE

<u>Date</u>		<u>Lecture Topic</u>	<u>Chapter in Text</u>
<u>Sept 7</u>	1	The origins of evolutionary thinking	1
<u>Sept 11</u>	2	A brief history of Earth's life	17
<u>Sept 14</u>	3	The Tree of Life: phylogenetic analysis	2,16
<u>Sept 18</u>	4	Adaptation and natural selection	3
<u>Sept 21</u>	5	Mutations and the origins of variation	4
<u>Sept 25</u>	6	Natural selection in detail	5
<u>Sept 28</u>	7	Genetic drift	7
<u>Oct 2</u>	8	Population genetics exercise (& class discussion)	
<u>Oct 5</u>		MIDTERM EXAM I	
<u>Oct 9</u>		THANKSGIVING	
<u>Oct 12</u>	9	Gene flow, dispersal and spatial pattern	8
<u>Oct 16</u>	10	Quantitative traits and phenotypic evolution	6
<u>Oct 19</u>	11	Species and speciation	9
<u>Oct 23</u>	12	Evolution of sex	10
<u>Oct 26</u>	13	Sex ratios, sexual selection	10
<u>Oct 30</u>	14	Life history evolution	11
<u>Nov 2</u>	15	Cooperation and conflict	12
<u>Nov 6</u>		MIDTERM EXAM II	
<u>Nov 9</u>	16	Coevolution	13
<u>Nov 13</u>		READING BREAK	
<u>Nov 16</u>	17	Evolution of genes and genomes I	14
<u>Nov 20</u>	18	Evolution of genes and genomes II	14
<u>Nov 23</u>	19	Evolution and development I	15
<u>Nov 27</u>	20	Evolution and development II	15
<u>Nov 30</u>	21	Macroevolution	17,19,20

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

Course website: on CourseSpaces

GRADING FOR THIS COURSE:

Midterm exam I (October 5)	20%
Written assignment – critique (due October 30)	20%
Midterm exam II (November 6)	20%
Final exam (December exam period)	40%

Assignment of letter grades (see UVic Undergraduate Calendar):

A+ (90.0-100.0%), A (85.0-89.9%), A- (80.0-84.9%), B+ (77.0-79.9%), B (73.0-76.9%), B- (70.0-72.9%), C+ (65.0-69.9%), C (60.0-64.9%), D (50.0-59.9%), F (0-49.9%), N (failure to complete one or more of the following: research report, mid-term exams, final exam).

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<http://web.uvic.ca/calendar2013/FACS/UnIn/UARe/PoAcI.html>

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