

# BIOLOGY 355 – EVOLUTION

A01 (10329) Fall 2015

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

## LECTURE SCHEDULE

<u>Date</u>		<u>Lecture Topic</u>	<u>Chapter in Text</u>
<u>Sept 10</u>	1	A brief history of evolution	1
<u>Sept 14</u>	2	Variation in populations (John Taylor)	9
<u>Sept 17</u>	3	Variation and selection (John Taylor)	9
<u>Sept 21</u>	4	The origins of genetic variation	8
<u>Sept 24</u>	5	Genetic drift & gene flow	10
<u>Sept 28</u>	6	Natural selection I	11,12
<u>Oct 1</u>	7	Natural selection II	11,12
<u>Oct 5</u>	8	Phylogenetics I	2
<u>Oct 8</u>	9	Phylogenetics II	2
<u>Oct 12</u>		THANKSGIVING	
<u>Oct 15</u>	10	Biogeography	6
<u>Oct 19</u>	11	Quantitative traits	13
<u>Oct 22</u>		MIDTERM EXAM	
<u>Oct 26</u>	12	Life history evolution	14
<u>Oct 29</u>	13	Evolution of sexual reproduction	15
<u>Nov 2</u>	14	Sex ratios, sexual selection	15
<u>Nov 5</u>	15	Evolution of social behaviour	16
<u>Nov 9</u>		READING BREAK	
<u>Nov 12</u>	16	Species & hybridization	17
<u>Nov 16</u>	17	Speciation	18
<u>Nov 19</u>	18	Coevolution	19
<u>Nov 23</u>	19	Molecular evolution I	20
<u>Nov 26</u>	20	Molecular evolution II	20
<u>Nov 30</u>	21	Evolution and development I	21
<u>Dec 3</u>	22	Evolution and development II	21

Text: Futuyma, Douglas J. 2013. Evolution, 3<sup>rd</sup> ed. Sinauer Associates, Inc.

GRADING FOR THIS COURSE:

WRITTEN ASSIGNMENTS/EXERCISES .....	25%
Assignment #1 (Darwin readings) .....	10%
Assignment #2 (phylogenetics assignment) ...	15%
MIDTERM EXAM (October 22) .....	35%
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 exam, final exam).

**Preventing plagiarism and cheating** – Please read UVic’s policy on academic integrity:

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

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