

# BIOLOGY 355 – EVOLUTION

A01 (10383) Fall 2018

**LECTURER:** Dr. Geraldine A. Allen

Office: Cunningham 218b Tel: 250-721-7110 email: [gallen@uvic.ca](mailto:gallen@uvic.ca)

Lectures: DSB (David Strong Bldg) C103  
Monday & Thursday, 8:30-9:50 am

## LECTURE SCHEDULE (revised)

<u>Date</u>		<u>Lecture Topic</u>	<u>Chapter in Text</u>
Sept 6	1	The origins of evolutionary thinking	1
Sept 10	2	A brief history of life on Earth	17
Sept 13	3	The Tree of Life: phylogenetic analysis	2,16
Sept 17	4	Adaptation and natural selection	3
Sept 20	5	Mutations and the origins of variation	4
Sept 24	6	Natural selection in detail	5
Sept 27	7	Genetic drift	7
Oct 1	8	Population genetics exercise (class demo)	
Oct 4		<b>MIDTERM EXAM I</b>	
Oct 8		THANKSGIVING	
Oct 11	9	Gene flow, dispersal and spatial pattern	8
Oct 15	10	Quantitative traits and phenotypic evolution	6
Oct 18	11	Species and speciation	9
Oct 22	12	Evolution of sex	10
Oct 25	13	Sex ratios, sexual selection	10
Oct 29	14	Life history evolution	11
Nov 1	15	Cooperation and conflict	12
Nov 5		<b>MIDTERM EXAM II</b>	
Nov 8	16	Coevolution	13
Nov 12		READING BREAK	
Nov 15	17	Evolution of genes and genomes I	14
Nov 19	18	Evolution of genes and genomes II	14
Nov 22	19	Evolution and development I	15
Nov 26	20	Evolution and development II	15
Nov 29	21	Evolution over space and time	17,19
Dec 3	22	Macroevolution	20

**Text:** Futuyma, D. J. & M. Kirkpatrick. 2017. Evolution, 4<sup>th</sup> ed. Sinauer Associates, Inc.

**Course website:** on CourseSpaces

**GRADING FOR THIS COURSE:**

Midterm exam I (October 4) .....	25%
Short written assignments (TBA) .....	10%
Midterm exam II (November 5).....	25%
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).

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

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

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