

Evolution BIOL 318 Fall 2018

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Date	Lec	Topic	Readings from Futuyma
1 [Removed]	1 Origins	200 Years of Darwin: A Theory's Origins	Ch. 1
2 [Removed]	2	Reconciling Darwin & Mendel: the Modern Synthesis	8
3 [Removed]	3 Population Genetics	Genetic variation & Hardy-Weinberg	9
4 [Removed]	4	Genetic drift & the Neutral Theory	10
5 [Removed]	5	Natural selection and the genotype	12
6 [Removed]	6 Adaptation	Natural selection and the phenotype	6
7 [Removed]	7	Interactions within species: Sexual selection	14
8 [Removed]	8	Finding Darwin in DNA: testing neutrality	18
9 [Removed]	9	<i>Review; 1st Homework set due</i>	
10 [Removed]		1st Exam (Lec 1-9)	
11 [Removed]	10 Phylogenetics	Methods of phylogenetic analysis	2
12 [Removed]	11	Molecules & the comparative method	3
13 [Removed]	12 Fossils	Nature's time machine	4
14 [Removed]	13	Patterns in the history of life	5
15 [Removed]	14	Inferring process from pattern	7,21
16 [Removed]	15	<i>Review; 2nd Homework set due</i>	20
[Removed]		Reading day, no class	
17 [Removed]		2nd Exam (Lec 10-14)	
18 [Removed]	16 Speciation	Concepts, mechanisms	15
19 [Removed]	17	Genetic basis of speciation	
20 [Removed]	18	Adaptive radiation: speciation in context	16
21 [Removed]	19 Molecular Evolution	Evo-devo	19
22 [Removed]	20	Genome/Molecular evolution	
23 [Removed]	21	From genotype to phenotype and back again	11
24 [Removed]	22 Human Evolution	Our 6 million year journey	
25 [Removed]	23	Creationism: Then & Now	22
[Removed]		University closed, no class	
26 [Removed]	24	Invited Talk 1	
27 [Removed]	25	Invited Talk 2	
28 [Removed]	26	<i>Review; 3rd Homework set due</i>	
29 [Removed]		Final Exam (cumulative), [Removed]	

Lecture Notes: Reduced pdf versions of lecture slides will be posted after each lecture on the course website
 Required texts: Futuyma, Evolution 4th Edition
 Homework: Three sets
 Attendance: Top Hat registration required (see attachment for details)
 Assessment: mid-term 15% each; final 30%; homework 10% each; attendance 10%
 Office hours: [Removed]

Top Hat

We will be using the Top Hat (www.tophat.com) classroom response system in class. You will be able to submit answers to in-class questions using Apple or Android smartphones and tablets, laptops, or through text message.

You can visit the Top Hat Overview (<https://success.tophat.com/s/article/Student-Top-Hat-Overview-and-Getting-Started-Guide>) within the Top Hat Success Center which outlines how you will register for a Top Hat account, as well as providing a brief overview to get you up and running on the system.

An email invitation will be sent to you by email, but if don't receive this email, you can register by simply visiting our course website: [Removed]

Note: our Course Join Code is [Removed]

Top Hat will require a paid subscription, and although there are three pricing options, we strongly suggest you purchase the 1 year or 5 year license since there are no upgrade options for the single semester.

A full breakdown of all subscription options available can be found here: www.tophat.com/pricing.

Should you require assistance with Top Hat at any time, due to the fact that they require specific user information to troubleshoot these issues, please contact their Support Team directly by way of email (support@tophat.com), the in app support button, or by calling 1-888-663-5491.

VCU Syllabus Statement

The required syllabus statements originally included here are maintained by the Office of the Provost and are regularly updated. To prevent the dissemination of information which may no longer be accurate or complete, the full text of the required syllabus statements have been removed from this document.

Students should visit <http://go.vcu.edu/syllabus> and review all syllabus statement information. The full university syllabus statement includes information on safety, registration, the VCU Honor Code, student conduct, withdrawal and more.