

EVOLUTIONARY BIOLOGY

Spring 2010

EEB 2245/2245W
Tu/Th 9:30-10:45 am
BSP Rm. 130

Instructors:

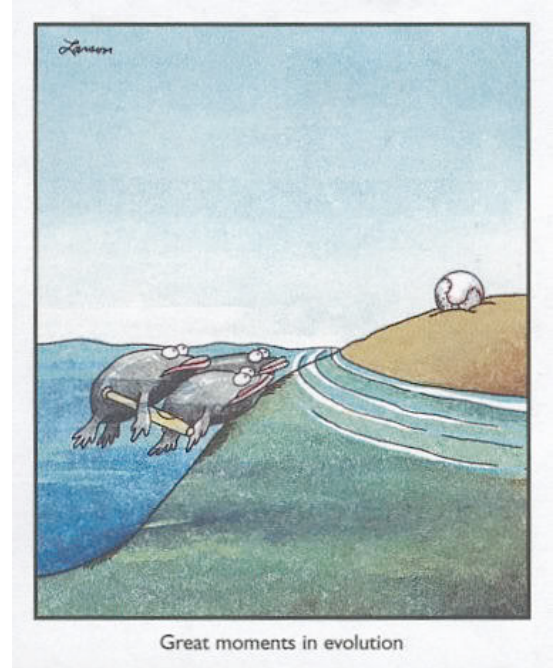
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Grading:

EEB 2245: Your grade will be based on your performance in four lecture exams. Your lowest score on the first 3 exams will be dropped, and your scores on the two remaining exams and on the final exam will each constitute one-third of your final grade. University regulations require that students who miss the final exam without an excuse from the Dean of Students receive an F for that exam. Thus, you are required to take the final exam. **Note:** because you are allowed to drop your lowest grade, *we will not give make-up exams.*

EEB 2245W: Your final grade in the **lecture** portion of the course will be calculated as above. This grade will constitute 75% of your final course grade. Your grade in the **W part** of the course, as determined by your “W” instructor, will constitute the remaining 25% of your final course grade, except that ***an F in the W part of the course will result in an F for the entire course. An F in the lecture part of the course will also result in an F for the entire course.*** Refer to the 2245W handout and website (see URL below) for further information.

Dr. Richard King (TLS 470; tel: 486-4662; richard.w.king@uconn.edu) is the coordinator of the W part of the course.

Text: Futuyma, D. J. 2009. Evolution. 2nd ed. Sinauer Associates, Inc. (ISBN 978-0-87893-223-8)

Lecture website:

http://hydrodictyon.eeb.uconn.edu/eebedia/index.php/EEB_2245/2245W_Evolutionary_Biology_%28Spring_2010%29

W portion website:

<http://hydrodictyon.eeb.uconn.edu/eebedia/index.php/EEB2245W-S2010>

LECTURE SYLLABUS

(Please read assigned chapters, as indicated below, prior to class)

No.	Date	Topic	Reading
1	T Jan 19	Introduction to the Geological Time Scale; the Fossil Record Life in the Precambrian; evolution of the Metazoa	Ch. 4 (73-77)
2	Th Jan 21		Ch. 5 (101-108)
3	T Jan 26	Cambrian explosion & Life in the Paleozoic Life in the Mesozoic	Ch. 5 (108-115)
4	Th Jan 28		Ch. 5 (115-121)
5	T Feb 2	Life in the Cenozoic Evolution of primates	Ch. 5 (121-131)
6	Th Feb 4		Ch. 4 (88-91)
7	T Feb 9	Evolution of biodiversity & extinction (<i>guest lecture: R. Prunier</i>) EXAM #1 (covers Lectures 1-6)	Ch. 7
8	Th Feb 11		
9	T Feb 16	Characters, homology & homoplasy Systematics & reconstructing evolutionary history	Ch. 3
10	Th Feb 18		Ch. 2
11	T Feb 23	Evolution and development Biogeography & major patterns of distribution	Ch. 21
12	Th Feb 25		Ch. 6
13	T Mar 2	Continental Drift & Historical Biogeography EXAM #2 (covers Lectures 7 & 9-13)	Ch. 6
14	Th Mar 4		
	T Mar 9	SPRING BREAK- no class	
	Th Mar 11	SPRING BREAK- no class	
15	T Mar 16	Genetic variation Genetic drift	Ch. 9 (215-241)
16	Th Mar 18		Ch. 10
17	T Mar 23	Migration and non-random mating Natural selection and adaptation	Ch. 9 (241-254)
18	Th Mar 25		Ch. 11
19	T Mar 30	Examples of natural selection The genetics of natural selection	Ch. 11
20	Th Apr 1		Ch. 12
21	T Apr 6	EXAM #3 (covers Lectures 15-20) Evolution of genomes	Ch. 20
22	Th Apr 8		
23	T Apr 13	Evolution of phenotypic traits Evolution of behavior	Ch. 13
24	Th Apr 15		Ch. 16
25	T Apr 20	Ecotypes and adaptive variation Species and speciation (<i>guest lecture: R. Prunier</i>)	Ch. 17
26	Th Apr 22		
27	T Apr 27	Speciation mechanisms Evolution and society	Ch. 18
28	Th Apr 29		Ch. 23

Preliminary date of fourth exam: Thursday, May 6 EXAM #4 (covers Lectures 22-28)