

**Instructor:** Dr. Robert Cox  
Office: 288 Aronoff  
Mailbox: 300 Aronoff  
Phone: 614-292-3393  
E-mail: [cox.541@osu.edu](mailto:cox.541@osu.edu)  
Office Hours: Tuesday from 3:30-5:30 in 202 Aronoff or by appointment

**TAs:** Jimmy Chiucchi      [chiucchi.1@osu.edu](mailto:chiucchi.1@osu.edu)  
Jonathan Hall            [hall.1073@osu.edu](mailto:hall.1073@osu.edu)  
Erik Rothacker           [rothacker.1@osu.edu](mailto:rothacker.1@osu.edu)  
Miles Spathelf            [spathelf.1@osu.edu](mailto:spathelf.1@osu.edu)

**Lecture:** Tuesday & Thursday 1:30-3:18 PM (1180 Postle Hall)

**Recitation:** Wednesday, times by section (0550 Parks Hall)

**Grading:** Your overall grade will reflect your performance on exams (200 points), problem sets and essays assigned as homework (100 points), and quizzes (50 points).

**Exams** – You will have two exams, each worth 100 points (total 200 points). The first exam will be given during the lecture period on **Thursday, 26 October**, and will cover all course material up to that point. The second exam will be given during finals week on **Wednesday, 6 December**, and will cover all course material not covered on the first exam. Exams will include a mixture of multiple choice, short essay questions, and interpretive problems.

**Homework** – You will have several take-home assignments, each worth between 10-30 points (total 100 points), consisting of problem sets or short written assignments. You are to complete these assignments individually, without the help of your classmates. Assignments will be collected in recitation.

**Quizzes** – You will have four quizzes, worth 15 points each, that will be administered during lectures. Your quiz grade will be based on 50 total points, out of a possible total of 60 points. If you accumulate more than 50 total points, these will be added to your grade as “bonus points”.

**Text:** Ridley, Mark. 2004. *Evolution, 3<sup>rd</sup> Edition*. Blackwell Publishing, Malden, MA.  
Readings from this text should help to explain lecture material and provide you with a more detailed and comprehensive understanding of evolution. However, the format of the lectures may often differ substantially from Ridley’s text. In such cases, the most important thing is that you understand the material discussed in lecture and recitation.

**Tentative Schedule:** This schedule is intended to give you a brief overview of the materials that we will cover. The dates and topics of lectures are subject to change, and an up-to-date listing of lecture topics and upcoming events will be maintained on the Carmen website under “Events”.

	<b>Date</b>	<b>Topics</b>	<b>Readings</b>
1	TH Sep 21	Why study evolution? Brief history of evolutionary biology	Ch. 1
2	TU Sep 26	Mendelian genetics, molecular genetics, the modern synthesis	Ch. 1-2
3	TH Sep 28	Natural selection and variation	Ch. 4
4	TU Oct 3	Population genetics and natural selection ( <b>Quiz 1, lectures 1-3</b> )	Ch. 5
5	TH Oct 5	Population genetics and random events	Ch. 6
6	TU Oct 10	Molecular evolution, neutral theory, and quantitative genetics	Ch. 7-9
7	TH Oct 12	Adaptive explanation ( <b>Quiz 2, lectures 4-6</b> )	Ch. 10
8	TU Oct 17	Units of selection, kin selection, group selection	Ch. 11
9	TH Oct 19	Sexual selection theory	Ch. 12
10	TU Oct 24	The evolution of sex, review session for Exam 1	Ch. 12
	TH Oct 26	<b>EXAM 1 – all material from lectures 1-10</b>	
11	TU Oct 31	Guest lecture on the evolution of social behavior: <i>C. Johnson</i>	
12	TH Nov 2	Species concepts and intraspecific variation, speciation	Ch. 13, 14
13	TU Nov 7	Phylogeny, classification and evolution	Ch. 15, 16
14	TH Nov 9	Evolutionary biogeography, ecology ( <b>Quiz 3, lectures 11-13</b> )	Ch. 17
15	TU Nov 14	The history of life and rates of evolution	Ch. 18, 21
16	TH Nov 16	Evolutionary genomics and evolutionary developmental biology	Ch. 19, 20
17	TU Nov 21	Coevolution, extinction and radiation ( <b>Quiz 4, lectures 14-16</b> )	Ch. 22, 23
	TH Nov 23	<b>THANKSGIVING</b>	
18	TU Nov 28	The evidence for evolution, religion and science, intelligent design	Ch. 3
19	TH Nov 30	Human evolution, review session for Exam 2	
	W Dec 6	<b>EXAM 2 – all material from lectures 11-19</b>	