

06/10/2023

EVOLUTION
BIOL3321 CRN 35261
SUMMER I 2023 (Revisions Possible)

INSTRUCTOR:

Dr. Michael Moody: 747-5087, mlmoody@utep.edu

COURSE REQUIREMENTS AND ASSIGNMENTS:

Blackboard Modules – Daily Readings, Minilectures, Videos, Questions; Simbio

TEXTBOOK (REQUIRED – EXAM QUESTIONS WILL COME FROM READINGS AND OTHER BB MATERIAL PROVIDED):

- Freeman, Scott, and Jon C. Herron. 2014. *Evolutionary analysis*. 5th Edition. Pearson Prentice Hall, NJ.

- SimBio – Instructions will be provided

COURSE OBJECTIVES:

- Define biological evolution and discuss the rise of modern evolutionary biology
- Apply genetics to evolutionary biology
- Know what conditions are required for natural selection to operate
- Understand natural selection, including models and events shaping molecular evolution
- Apply quantitative genetics to evolutionary biology
- Define adaptations, how they evolve, and understand at what level selection is operating
- Define and understand phylogenetic theory and how to assess phylogenies
- Differentiate between species concepts and understand the mechanisms for speciation

GRADING:

[†] BB questions (Mon. – Wed.; drop two)	10%
SimBio questions (answer all <u>feedback and graded Qs</u>)	15%
*EXAMS 1 (Friday June 16, 8 am-10 pm) - Respondus	20%
*EXAMS 2 (Friday June 23, 8 am-10 pm) - Respondus	20%
*EXAMS 3 (Friday June 30, 8 am-10 pm) - Respondus	20%
*EXAMS 4 (Friday July 7, 8 am-10 pm) - Respondus	15%
Total for students:	100%

[†]BB Questions – Will be available at noon Mon. – Wed (except last week). There will be a 24 hr. window to complete with 30 min. allowed once you begin to answer open book, after which the Questions will close.

***All exams will allow 90 min. for completion within a 14 hour window. No exceptions to these exam windows. EXAMS – RESPONDUS LOCKDOWN BROWSER – REQUIRED**

Grades will be assigned as: 90+% = A, 80-89% = B, 70-79% = C, 60-69% = D, <60% = F.

DOWNLOADING THE RESPONDUS LOCKDOWN BROWSER

You will need to download the Respondus Lockdown Browser to take the exams. See the description and link below. When you open Respondus it will provide an Outlook browser window where you will open Blackboard. Don't try to open the exam directly in your current browser open it in the browser provided by the Respondus Lockdown Browser.

LockDown Browser Requirement

This course requires the use of LockDown Browser for online exams. Watch this video to get a basic understanding of LockDown Browser:

<https://www.respondus.com/products/lockdown-browser/student-movie.shtml>

Download Instructions

Download and install LockDown Browser from this link:

<https://download.respondus.com/lockdown/download.php?id=586140509>

USING LOCKDOWN BROWSER - Using the 'lockdown browser' is not necessarily intuitive. Please follow the directions below after you have downloaded the APP to take the exam:

You don't open the exam directly through your browser but through the "Lock Down Browser". One you have the Respondus Lockdown app downloaded you will need to:

1. Double click the 'Lock Down Browser' icon.
2. Window will appear asking "Do you want this app to make changes to your device?" Choose yes.
3. The lockdown browser will open (sometimes a short delay) and lead you to the exam through blackboard.
4. **IMPORTANT.** You will be asked to show your work area. This means the area where your computer will sit and the entire area you will look at during the exam. I will check the videos of the work area. **If these videos do not show the entire work area, it will be considered cheating.**
5. Keep your face clearly in view of the camera and looking at the screen. If your face is not in view or you are looking around the room, you will be registered as cheating.

Note: You won't be able to access tests with a standard web browser. If this is tried, an error message will indicate that the test requires the use of LockDown Browser. Simply start LockDown Browser and navigate back to the exam to continue.

Guidelines

When taking an online test, follow these guidelines:

- [If testing is to occur at a designated location, such as a testing center, add those instructions here.]
- [If applicable] Select a location where you won't be interrupted
- Before starting the test, know how much time is available for it, and also that you've allotted sufficient time to complete it
- Turn off all mobile devices, phones, etc. and don't have them within reach
- Clear your area of all external materials - books, papers, other computers, or devices
- Remain at your desk or workstation for the duration of the test
- LockDown Browser will prevent you from accessing other websites or applications; you will be unable to exit the test until all questions are completed and submitted

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Getting Help

Several resources are available if you encounter problems with LockDown Browser:

- The Windows and Mac versions of LockDown Browser have a "Help Center" button located on the toolbar. Use the "System & Network Check" to troubleshoot issues. If an exam requires you to use a webcam, also run the "Webcam Check" from this area
- [As applicable, insert information about your institution's help desk, including details about how to contact them. Some help desks want students to run the "System & Network Check" and the "Webcam Check" before they are contacted - and even, to forward the results of these checks at the time of opening a ticket.]
- Respondus has a Knowledge Base available from support.respondus.com. Select the "Knowledge Base" link and then select "Respondus LockDown Browser" as the product. If your problem is with a webcam, select "Respondus Monitor" as your product
- If you're still unable to resolve a technical issue with LockDown Browser, go to support.respondus.com and select "Submit a Ticket". Provide detailed information about your problem and what steps you took to resolve it

POLICY ON MAKE-UP EXAMINATIONS: No make-up exams will be given for reasons other than extreme illness (doctor's note required) or when a student is on official University business (documentation required). Make-up exams will be scheduled at the Instructor's convenience.

POLICY ON ACADEMIC HONESTY: Academic Dishonesty will not be tolerated. It includes, but is not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts. **Respondus requirements for exams will be strictly upheld and if rules are not followed students will be referred to the Dean of Students.** If you have any questions regarding the university policy on scholastic dishonesty please contact the Dean of Students.

PARTICIPATION POLICY: Regular participation will be necessary for success in this class.

POLICY OF ONLINE BEHAVIOR: Any student who disrupts or uses inappropriate online behavior will be warned and/or referred to the Dean of Students.

DISABILITY STATEMENT: If you have a disability and need accommodations, please contact: The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at www.sa.utep.edu/cass.

MILITARY STATEMENT: If you are a military student with the potential of being called to military service and /or training during the course of the Summer I sessions, you are encouraged to contact me at the beginning of the summer. If you know prior to the Summer I session that you will not be able to complete the course as described, it is recommended you drop and take the course in the Fall or Spring semesters.

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	Date		Lecture Topic	Instructor - Chapter(s)	Question	SimBio
WEEK 1	12-Jun	<i>Mon</i>	Introduction to Evolution & Genetic Variation	Ch. 2: 37-55; Ch. 5, 148-169	Due 12 noon Tues	
	13-Jun	Tues	Genetic Variation & Hardy-Weinberg Principle	Ch. 5, 169-174; Ch. 6, 179-187	Due 12 noon Wed	
	14-Jun	<i>Wed</i>	Hardy-Weinberg Principle & selection	Ch. 6, 187-191; Ch. 7, 240-252	Due 12 noon Thurs	
	15-Jun	Thurs	Migration, Genetic Drift, neutral theory, inbreeding	Ch. 7, 253-265; 275-284		Selection, Drift, H-W Due Thurs. June 15, 11 pm
	16-Jun	<i>Fri</i>		Exam 1		
WEEK 2	19-Jun	Mon	Linkage Diseq & Evol. Sex	Ch. 8, 292-307; 314-325	Due 12 noon Tues	
	20-Jun	<i>Tues</i>	Quantitative traits and Selection	Ch. 3, 73-97	Due 12 noon Wed	
	21-Jun	Wed	Selection II – Natural Selection	Ch. 9, 329-334; 350-364	Due 12 noon Thurs	
	22-Jun	<i>Thurs</i>	Selection III – Sexual selection	Ch. 11, 407-447		Natural Selection Due Thurs. June 22, 11 pm
	23-Jun	Fri		Exam 2		
WEEK 3	26-Jun	<i>Mon</i>	Evolutionary Trees & tree thinking	Ch.4, 111-128; 134-140	Due 12 noon Tues	
	27-Jun	Tues	Evolutionary & Human-pathogen interaction	Ch. 14, 535-552	Due 12 noon Wed	
	28-Jun	<i>Wed</i>	Mechanisms of Speciation	Ch. 16, 609-614; 616-620	Due 12 noon Thurs	
	29-Jun	Thurs	Mechanisms of Speciation	Ch. 16, 621-640		Historical BioGeo Due Thurs. June 29, 11 pm
	30-Jun	<i>Fri</i>		Exam 3		
WEEK 4	3-Jul	Mon	The Origins of Life	Chapter 17 & 18	Due 12 noon Tues	
	4-Jul	<i>Tues</i>		University Holiday		
	5-Jul	Wed	The Origins of Life	Chapter 17 & 18	Due 12 noon Thurs.	
	6-Jul	<i>Thurs</i>	Human Evolution	Chapter 20		
	7-Jul	<i>Fri</i>		Exam 4		

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