

Biology 224 – General Animal Biology and Diversity
Section C70

Instructor: Dr. Philip Lienesch

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Office Hours: Shoot me an e-mail anytime and I'll get back to you as soon as I can.

Course Information:

Course Prerequisites: Bio 120/121 and Bio 122/123 with a C or better

Credit Hours: 3

Catalog Description: Survey of animal phyla and major classes with emphasis upon morphological adaptations and biological systems that have evolved to maintain organismal and population homeostasis.

Course Content Discipline: Zoology

Why take this course? Animal Biology and Diversity (Bio 224 and its co-requisite lab, Biol 225) fulfills the category A requirement for the Biology Major.

Course Objectives & Overview:

Upon completion of this course, the student shall be able to:	How the student will develop the learning outcomes	How the student will be assessed on these learning outcomes
<i>1. Understand the evolutionary relationships between major groups of animals</i>	<i>Readings and lectures</i>	<i>4 exams</i>
<i>2. understanding the major physiological systems vital for maintaining homeostasis</i>	<i>Readings and lectures</i>	<i>4 exams</i>
<i>3. understanding morphological characteristics that differentiate the major groups of animals.</i>	<i>Readings and lectures</i>	<i>4 exams</i>

Textbook/ Course Materials:

DO NOT PURCHASE – READ BELOW: Hickman et al. 2014. Integrated Principles of Zoology (16th ed.) McGraw Hill, New York.

The Biology Department at WKU has worked over the past year to develop a new model for textbook adoption. In order to save you some money, maximize your effective use of your textbook, increase learning and evaluate the best ways of teaching you difficult topics, we've entered into a partnership with McGraw-Hill publishers. **By enrolling in this course, you agree to purchase the digital materials associated with this course.** These materials include a downloadable e-copy of the textbook which is yours to keep. The cost per text, with all online materials, is \$75, about 35% to 50% the cost of purchasing a new textbook. About one week into the semester, you will be billed the cost of the materials for the course. The nice thing about this is that you will have access to all the

course materials from day one, without doing a thing! If you choose to drop the course during the regular add-drop period, you won't be charged for the book. You should note that for this course, you WILL be charged for the digital materials. **Do NOT buy a copy of the book from online or local vendors.**

Major Teaching Methods:

Lecture: Unlike the Bio 224 delivered during the regular semester, this section will have all the lectures delivered through Mediasite, WKU's new online video program available through blackboard. The lectures will be powerpoint based and you will be given the powerpoint slides through blackboard on the course website.

Course Policies:

Grading: There will be 4 exams during the class. Make-up exams will not be given except in extreme cases and at the discretion of the instructor (e.g., in the case of serious illness or a death in the family). Make-up exams are likely to consist of essay questions. Each exam during the semester will be worth 100 points for a semester total of 400 pts. The format of exams may include multiple choice, matching, fill in the blank, short answer and short essay.

Final grades are based on a percentage of the total points (400).

A = 90-100% B = 80-89.9% C = 70-79.9% D = 60-69.9% F = <60%

Each exam will consist of 50 questions and you will have 1 hour to complete the exam. Being an online course, you do not have to come to WKU to take the tests but you do have to go to an approved testing center. WKU has testing center on main campus and the satellite campuses (Glasgow and E-town) and we have reciprocal agreements with many other schools in the state and across the nation. You can go to DELO's website for more info on testing centers <<http://www.wku.edu/testing/>>

Attendance: Although daily participation is not graded, there is a huge amount of information included in this class and it is very easy to get behind. Listening to the assigned lectures each day and studying that material before moving on to new material the next day is the best strategy for success in this class. It is important to realize that there will be over 8 hours of material to listen each week, and that doesn't include time to study or read the book. Starting to prepare the day before the test is a recipe for failure.

Students with Disabilities Who Require Accommodations: The Office of Civil Rights recommends that the following statement be added to all syllabi: "In compliance with university policy, students with disabilities who require accommodations (academic adjustments and/or auxiliary aids or services) for this course must contact the Office for Student Disability Services in Downing University Center A-200. The OFSDS telephone number is (270)745-5004; TTY is (270)745-3030. Per university policy, please DO NOT request accommodations directly from the professor or instructor without a letter of accommodation from the Office for Student Disability Services."

Academic Dishonesty: "Students who commit any act of academic dishonesty may receive from the instructor a failing grade in that portion of the course work in which the act is detected or a failing grade in a course without possibility of withdrawal. The faculty member may also present the case to the Office of the Dean of Student Life for disciplinary sanctions. A student who believes a faculty member has dealt unfairly with him/her in a course involving academic dishonesty may seek relief through the Student Complaint Procedure". WKU Student Handbook

Student work may be checked by plagiarism detection software.

Tentative Lecture Schedule – subject to change at the instructor discretion.

Date	Lecture Topic	Chapter
Week	Day	
1	1	Classification/Animal body plan
	2	Porifera/ Tissues
	3	Cnidaria/ Platyhelminthes
	4	Mollusca
Exam 1 available from July 8 – July 11		
2	1	Reproduction/ Annelida
	2	Development/ Nematodes
	3	Arthropods
	4	Skeleton/ muscle
Exam 2 available from July 15 – July 18		
3	1	Respiration/ Circulatory system
	2	Echinoderms/ Chordates
	3	Fishes/ Amphibians
	4	Nervous system
Exam 3 available from July 22 – July 25		
4	1	Sensory organs
	2	Digestion/ Immune System
	3	Reptiles/ Birds
	3	Mammals/Homeostasis

Exam 4 available from July 29 – Aug 1

Being an online class, you will have access to the lectures whenever you want (they will be posted one week in advance of the test) but I recommend keeping up with the class every day. There is a huge amount of information for each text, way too much to listen to and learn in just one or two nights. By listening to a few lectures and studying that material each day, you won't be faced with such a daunting task that you will if you put it all off until the last day before you take the exam.