

Biology 224 – Animal Biology and Diversity
Section 700

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 have entered into a partnership with McGraw-Hill publishers. **By enrolling in this course, you agree to purchase the digital materials associated with this course.** In order to make these savings available to you, WKU must institutionalize the purchasing process. As a result, about a 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.**

We anticipate that this approach to teaching will result in better learning and a more interesting classroom experience for you, and less stress on your spine!

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 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 1.5 hours 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 12 hours of material to listen to each week, and that does not include time to study or read the book. Starting to prepare the day before the test is a recipe for failure.

Title IX Misconduct/Assault Statement:

Western Kentucky University (WKU) is committed to supporting faculty, staff and students by upholding WKU's Title IX Sexual Misconduct/Assault Policy (#0.2070) at <https://wku.edu/eoo/documents/titleix/wkutitleixpolicyandgrievanceprocedure.pdf> and Discrimination and Harassment Policy (#0.2040) at https://wku.edu/policies/hr_policies/2040_discrimination_harassment_policy.pdf.

Under these policies, discrimination, harassment and/or sexual misconduct based on sex/gender are prohibited. If you experience an incident of sex/gender-based discrimination, harassment and/or sexual misconduct, you are encouraged to report it to the Title IX Coordinator, Andrea Anderson, 270-745-5398 or Title IX Investigators, Michael Crowe, 270-745-5429 or Joshua Hayes, 270-745-5121.

Please note that while you may report an incident of sex/gender based discrimination, harassment and/or sexual misconduct to a faculty member, WKU faculty are “Responsible Employees” of the University and **MUST** report what you share to WKU’s Title IX Coordinator or Title IX Investigator. If you would like to speak with someone who may be able to afford you confidentiality, you may contact WKU’s Counseling and Testing Center at 270-745-3159.

Students with Disabilities Who Require Accommodations:

In compliance with University policy, students with disabilities who require academic and/or auxiliary accommodations for this course must contact the Student Accessibility Resource Center located in Downing Student Union, 1074. SARC can be reached by phone number at 270-745-5004 [270-745-3030 TTY] or via email at sarc.connect@wku.edu. Please do not request accommodations directly from the professor or instructor without a faculty notification letter (FNL) from The Student Accessibility Resource Center.

The Learning Center

Should you require academic assistance with your WKU courses, The Learning Center (located in the Downing Student Union, 2141) provides free supplemental education programs for all currently enrolled WKU students. TLC @ DSU offers certified, one-on-one tutoring in over 200 subjects by appointment or walk in. Online tutoring is offered to distance learners. TLC is also a quiet study area, with side rooms designated for peer to peer tutoring, and offers a thirty-two machine Dell computer lab to complete academic coursework. Additionally, TLC has three satellite locations. Each satellite is a quiet study center and is equipped with a small computer lab. For more information, or to schedule a tutoring appointment, please call TLC at (270) 745-5065. www.wku.edu/tlc

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
Jan. 2	Classification/ body plan/ Porifera	9, 10, 12
3	Cnidaria/ Platyhelminthes	13,14
4	Tissues/ Mollusca/ Exam 1	9, 16
7	Reproduction/ Annelida/ Nematoda/Arthropoda	7,18-21
8	Development/ Skeleton/ muscle	8, 29
9	Exam 2 / Respiration/ circulatory system	31
10	Echinoderms/ Chordata	22, 23
11	Fishes/ Amphibians	24, 25
14	Nervous system	33
15	Exam 3 / Sensory Receptors	33,
16	Digestion/ Immune System/ Reptiles	32, 35, 26
17	Birds/ Mammals/ Homeostasis	27, 28, 30
18	Exam 4 (open through Jan 19th at 2pm).	

Being an online class, you will have access to the lectures whenever you want (they will be posted at least 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 test, 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 will not be faced with as daunting a task as you will if you put it all off until the last day before you take the exam.