

Biology 249 Syllabus

(Fall 2007)

Instructor: Nathan Mills, PhD
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Office Hours: 1:00–5:00 Tuesday and Friday
Or by appointment

Class: Section 01—Monday/Wednesday, 1:00–3:30
Section 02—Tuesday/Thursday, 9:45–12:15

Text: *Fundamentals of Anatomy and Physiology* (7th Ed.) Martini, 2006.
Laboratory Exercises for Anatomy and Physiology I. Mills, Fall 2007.

Prerequisites: Chem 114—General Chemistry (minimum grade of C)
Chem 215—Organic and Biological Chemistry (minimum grade of C)

Catalog Description: First half of a two-semester sequence. Provides an overview of the molecular and cellular basis of life, and covers the anatomy and physiology of the integumentary, skeletal, muscular, and nervous systems. Three hours of lectures and 3 hours of laboratory per week.

Blackboard: Blackboard will be used to post class lectures, lecture outlines, study guides, and test questions from previous semesters. Information for each chapter will be posted the day before we cover it in class. It is recommended that you check WebCT regularly to get the most recently posted information. To access Blackboard log on to Harding Pipeline and click on the *HU Students* tab. To access your classes click on the *My HU Courses* link and choose the link for *Anatomy and Physiology*.

Grading: Grades will be determined by laboratory participation (10% of grade) and five lecture/laboratory exams (90% of grade). The grading scale is as follows:

A= 90–100 %
D= 60–69 %

B=80–89 %
F=below 60 %

C=70–79 %

Attendance: Attendance is expected. Reading class materials prior to class is recommended to familiarize yourself with the subject matter. Class meetings will consist of a combination of lecture and laboratory exercises.

Honesty: Honesty and integrity are characteristics that should describe each one of us as servants of Jesus Christ. As your instructor, I pledge that I will strive for honesty and integrity in how I handle the content of this course and in how I interact with each of you. I ask that you join me in pledging to do the same. Academic dishonesty will result in penalties up to and including dismissal from the class with a failing grade and will be reported to the Assistant Vice President for Academic Affairs. All instances of dishonesty will be handled according to the procedures delineated in the Harding University catalog.

Students with Disability: It is the policy for Harding University to accommodate students with disabilities, pursuant to federal and state law. Therefore, any student with a *documented disability* condition (e.g. physical, learning, psychological, vision, hearing, etc.) who needs to arrange reasonable accommodations must contact the instructor and the Disabilities Office at the *beginning* of each semester. (If the diagnosis of the disability occurs during the academic year, the student must self-identify with the Disabilities Director *as soon as possible* in order to get academic accommodations in place for the remainder of the semester.) The Disabilities Office is located in Room 102 of the Lee Academic Center, telephone, (501) 279-4019.

Exams/Practicals: There will be 5 exams/practicals. Combined these exams/practicals will make up 90 % of your grade. All exams/practicals are comprehensive. If an exam/practical is missed and you have a university-approved excuse, you will be expected to take the exam at the earliest possible date following the exam.

Laboratory Exercises: There will be 16 laboratory exercises throughout the semester. These exercises are intended to help you learn. Some of these exercises will consist of learning basic anatomy using a combination of diagrams, models, and dissections. Other exercises are intended to give you hands on experience with important physiological concepts. During every exercise I will be present and available to answer your questions and help you with concepts. If you actively participate in the laboratory exercises you will receive 5 point for each exercise. If you are present but choose to use the time for other activities, such as studying for other classes and talking about unrelated topics, you will receive 0 points for the exercise. Laboratory participation points account for 10 % of your final grade.

Studying: This class requires a large amount of study time! You will be learning a new language (anatomy) and using this language as a basis for learning how the human body works (physiology). You will need to study for this class daily if you want to do well. If you are feeling overwhelmed by the information in this class or do not do well on the first couple of exams, be sure to talk with me about appropriate study strategies. If you wait until the end of the semester to talk with me, it will already be too late for me to be of much help.

Biology 249 Tentative Schedule

Week	Chapters	Lab Exercises
Aug 20-24	Chapter 1: An Introduction to Anatomy and Physiology	Exercises 1 and 2
Aug 27-31	Chapter 3: The Cellular Level of Organization Chapter 4: The Tissue Level of Organization	Exercise 3
Sept 3-7	Chapter 5: The Integumentary System	Exercise 4
Sept 10-14	Tuesday—Exam/Practical 1 over chapters 1, 3-5 Chapter 6: Osseous Tissue and Bone Structure	
Sept 17-21	Chapter 7: The Axial Skeleton Chapter 8: The Appendicular Skeleton	Exercises 5, 6, 7
Sept 24-28	Chapter 9: Articulations	Exercise 8
Oct 1-5	Tuesday—Exam/Practical 2 over chapters 6-9 Chapter 11: The Muscular System	Exercise 9
Oct 8-12	Chapter 10: Muscle Tissue	Exercise 9
Oct 15-19	Chapter 12: Neural Tissue	Exercise 10
Oct 22-26	Thursday—Exam/Practical 3 over chapter 10-12	
Oct 29-Nov 2	Chapter 14: The Brain and Cranial Nerves	Exercise 11
Nov 5-9	Chapter 13: The Spinal Cord and Spinal Nerves	Exercises 12, 13
Nov 12-16	Thursday—Exam/Practical 4 over chapters 13-14 <i>(Friday—last day to drop classes)</i>	Exercise 14
Nov 19-23	Thanksgiving Break	
Nov 26-30	Chapter 16: Autonomic Nervous System Chapter 15: Neural Integration	Exercise 15
Dec 3-7	Chapter 17: Special Senses	Exercise 16
Dec 10-14	Exam/Practical 5 over chapters 15-17 Section 01—Thursday, 10:15-12:45 Section 02—Monday, 10:15-12:45	