

Moravian College
Department of Biological Sciences
Anatomy and Physiology - BIO 103
Fall 2012

Instructors:	Dr. Cecilia M. Fox Ms. Marie Kennedy Hosier (laboratory instructor)
Phone:	Fox: 610-861-1426 Hosier: 610-703-6045 (cell)
E-mail:	Fox: cfox@moravian.edu Hosier: mkh11@psu.edu or mhosier@moravian.edu
Office:	Fox: Collier Hall of Science, Room 304 Hosier: Collier Hall of Science, Second Floor or Room 303
Fox Office Hours:	Wednesdays 12-2pm, Thursdays 1-2pm and <i>by appointment</i>
Hosier Office Hours:	Wednesdays 11:30am-1:00pm Fridays 10:00am-12:00pm <i>or by appointment</i>
Lecture:	Mondays, Wednesdays and Fridays 8:55-9:45am - Dana Lecture Hall, Collier Hall of Science
Lab:	3 sections: Mondays, Wednesdays or Fridays 1:15-4:15pm - Collier Hall of Science - Room 303
Textbook:	<u>Seeley's Principles of Anatomy and Physiology, 2nd Ed.</u> by Philip Tate McGraw Hill Publishers
Lab Manual:	<u>Laboratory Manual for Seeley's Principles of Anatomy and Physiology, 2nd Ed.</u> by Eric Wise McGraw Hill Publishers
Dissecting Kits and Protective Eyewear:	Will need to be purchased by the September 10 th , 12 th or 14 th lab sessions <i>Available in the Bookstore</i>

Course Description: This course offers an in depth anatomical and physiological study of the human integumentary, skeletal, muscular and nervous systems. Concepts and principles important to the understanding of the human body are addressed in lecture as well as case study assignments of clinical situations. Laboratory includes fetal pig and organ dissections, microscope study of tissues and evaluation of physiological processes.

Course Objectives: Upon completion of this course, the student will be able to:

- a) understand the human anatomy of the integumentary, skeletal, muscular and nervous systems
- b) understand the relationships between structure and function in the various systems
- c) recognize the different types of cells and tissues found in these systems

- d) understand the physiological mechanisms behind the human body's response to normal and stressed situations
- e) appreciate the complexity of living organisms through dissection of selected mammalian organs

Grading: The grading system is as follows:
 (+/- will be administered as the professor deems appropriate)

A = 90 - 100
 B = 80 - 89
 C = 70 - 79
 D = 60 - 69

Your final grade will be based on the following criteria:

Three lecture exams:	100 points each =	300 points
Two lab exams:	100 points each =	200 points
Best ten lecture quizzes:	10 points each =	100 points
Final lecture exam:		200 points
Primary literature assignment:		100 points
Lecture participation and preparation:		100 points
Lab participation and preparation:		<u>100 points</u>
		1100 points

- ** Both lecture material and textbook readings are fair game for lecture exams.
- ** The final lecture exam is cumulative.
- ** Primary literature assignment will be discussed as the course progresses.
- ** Please note: it is within the instructor's purview to apply qualitative judgment in determining grades for an assignment or the entire course

Expectations:

- a) *Attendance:* Regular lecture and lab attendance is expected. Please be on time! **No** make-up exams will be given unless you have an acceptable reason (family emergency, illness, etc). If an emergency should arise, you must notify me prior to the lecture exam and **not** after. If you plan to miss a lab please notify Dr. Fox or Ms. Hosier in advance. Students are allowed a maximum of three absences in lecture and one absence in lab within this semester. If you miss class or lab more than the allowed times, 50 points will be deducted from your lecture or lab participation grade. Another 10 points will be deducted from your lecture or lab participation grades for each additional absence. **Please be aware that absences are not divided into excused and unexcused. Regardless of the reason, an absence from class or lab is counted as an absence.**
- b) *Cheating:* will not be tolerated. Students will be held to the highest standards as specified by the Moravian College Honor Code. Violations of this code will be handled in the most severe manner allowed by college policy.
- c) *Reading Assignments:* should be completed prior to lecture as well as lab.

- d) *Lecture Quizzes:* A quiz covering the week's material will be given on **Fridays.**
- e) *Lab Preparation:* You are expected to come to lab prepared for that day's exercise. For each lab session please bring your: textbook, lab manual, lecture notes, dissection kit and protective eyewear.
- f) *Extra Help:* If difficulties interpreting lecture or lab material arise, please contact your professor(s) for extra tutoring sessions. *We will be more than happy to help!*
- g) *Cell Phones/Pagers:* Please either turn off or set on vibrate/quiet mode your cell phones and pagers prior to entering the lecture hall and laboratory. **As a courtesy to the professor, no text messaging during lecture and lab!**
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Tentative Lecture Schedule

<u>Week of</u>	<u>Topic</u>	<u>Reading Assignment</u>
Aug. 27	The Human Organism	Chapter 1
Sept. 3	The Chemical Basis of Life (brief overview) Cell Structures and Their Functions	Chapter 2 Chapter 3
Sept. 3	No Class - Labor Day	
Sept. 10	Cell Structures and Their Functions (con't)	
Sept. 17	Tissues, Glands and Membranes	Chapter 4
Sept. 24	Integumentary System	Chapter 5
Sept. 26	Exam 1 (Intro through Tissues)	
Oct. 1	Histology and Physiology of Bones	Chapter 6
Oct. 6-9	Fall Recess	
Oct. 8	Anatomy of Bones and Joints	Chapter 7
Oct. 12,15	No Lecture – Society for Neuroscience Conference	
Oct. 15	Anatomy of Bones and Joints (con't) Histology and Physiology of Muscles	Chapter 8
Oct. 22	Anatomy and Functions of Skeletal Muscles	Chapter 9

Oct. 29	Exam 2 (Integumentary through Skeletal System)	
Oct. 29	Anatomy and Functions of Skeletal Muscles	Chapter 9
Nov. 5	Anatomy and Functions of Skeletal Muscles (con't)	Chapter 9
Nov. 12	Functional Organization of Nervous Tissue	Chapter 10
Nov. 19	Exam 3 (Muscular System)	
Nov. 21-25	Thanksgiving Holiday	
Nov. 26	Central & Peripheral Nervous Systems	Chapter 11
Dec. 3	Special Senses Autonomic Nervous System	Chapter 13 Chapter 14
December 10 (at 1:30pm)	Final Exam	

Tentative Laboratory Schedule

<u>Week of</u>	<u>Topic</u>
August 27	Homeostasis-Resting Pulse Rate Microscopy
September 3	No Lab – Labor Day
September 10	Introduction to Clinical Database Searchers Organs, Systems and Organization of the Body Cell Structure and Function
September 17	Cell Transport and Permeability Tissues
September 24	Tissues (continued) Integumentary System

October 1	Skeletal System
October 8	No Lab – Fall Break
October 15	Skeletal System (continued) Articulations
October 22	Practical Exam #1
October 29	Muscular System-Human Cat Dissection
November 5	Muscular System (continued)
November 12	Histology of Nervous Tissue Nerve Physiology
November 19	Thanksgiving Holiday - No Lab
November 26	Dissection of Sheep Brain Reflex and Sensory Testing
December 3	Practical Exam # 2

Students who wish to request accommodations in this class for a disability should contact Elaine Mara, assistant director of learning services for academic and disability support at 1307 Main Street, or by calling 610-861-1510. Accommodations cannot be provided until authorization is received from the Academic Support Center.

Professors reserve the right to amend this syllabus as the course progresses.