Moravian College

Department of Biological Sciences
Anatomy and Physiology - BIO 103
Fall 2010

Instructors:	Dr. Donald W. Hosier Mrs. Marie Kennedy Hosier
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Office:	D. and M. Hosier: Collier Hall of Science, Room 307
Office Hours:	D. Hosier: MWF 8-9am; Th 11:30am-12:30pm and by appointment M. Hosier: WF 10:00am-12:00pm and by appointment
Lecture:	MWF: 9:00 -9:50am
Lab:	3 sections: Wednesdays or Fridays 1:15-4:15pm – CHS 303; Thursday, 830 -11:30am- CHS 301
Textbook:	Seeley's Principles of Anatomy and Physiology by Philip Tate: 2009 McGraw Hill Publishers
Lab Manual:	Laboratory Manual for Seeley's Princi[ples of Anatomy and Physiology By: Eric Wise, 2009 McGraw Hill Publishers
Dissecting Kits and Protective Eyewear:	Will need to be purchased by the week of September 6 *Available in the Bookstore*

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
Three lab exams:	100 points each =	300 points
Best Ten Lecture Quizzes:	10 points each =	100 points
Ten Lab Quizzes :	5 points each =	50 points
Final lecture exam:		200 points
Case study assignments	50 points each =	100 points
Lecture participation and preparation:		100 points
Lab participation and preparation:		50 points
		1200 points

** Both lecture material and textbook readings are fair game for lecture exams.
** The final lecture exam is cumulative.
** Case study assignments 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 Professor 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 participation grade. Another 10 points will be deducted from your lecture participation grade for each additional absence. **Please be aware that absences are not divided into excused and unexcused. Regardless of the reason, an absence from class 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 as listed in the student handbook. 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!**

h) Students who wish to request accommodations in this class for a disability should contact Mr. Joe Kempfer, Assistant Director of Learning Services for Disability Support, 1307 Main Street (extension 1510). Accommodations cannot be provided until authorization is received from the office of Learning Services.

Tentative Lecture Schedule

Week of	Topic	Reading Assignment
Aug. 30	The Human Organism	Chapter 1
Sept. 6	The Chemical Basis of Life	Chapter 2
	Cell Structures and Their Functions	Chapter 3
Sept. 6	**No Class (Labor Day)**	
Sept. 13	Structures and Their Functions (con't)	
Sept. 20	Glands and Membranes	Chapter 4
Sept. 27	Integumentary System	Chapter 5
Oct. 4	Histology and Physiology of Bones	Chapter 6
Oct. 4	**Exam 1** (Intro through Tissues)	
Oct. 9-13	**Fall Recess**	
Oct. 11	Anatomy of Bones and Joints	Chapter 7
Oct. 18	Anatomy of Bones and Joints (con't) Histology and Physiology of Muscles	Chapter 8
Oct. 25	Anatomy and Functions of Skeletal	Chapter 9

	Muscles	
OCT 29	**Exam 2** (Integumentary through Skeletal System)	
Nov. 1	Anatomy and Functions of Skeletal Muscles	Chapter 9
Nov. 8	Anatomy and Functions of Skeletal Muscles (con't)	Chapter 9
Nov. 15	Functional Organization of Nervous Tissue	Chapter 10
Nov. 19	**Exam 3** (Muscular System)	
Nov. 22	Functional Organization of Nervous Tissue	Chapter 10
Nov. 24-29	**Thanksgiving Holiday**	
Nov. 29	Central & Peripheral Nervous Systems	Chapter 11
Dec. 6	Special Senses	Chapter 13
	Autonomic Nervous System	Chapter 14
December 15	**Final Exam** **(at 1:30pm)**	

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

- Tentative Laboratory Schedule

Week of	Topic	Lab Exercise Reading
August 30	Homeostasis-Resting Pulse Rate	Handout
	Microscopy	Exercise # 2
September 6	Introduction to Clinical Database Searchers We will meet at 1:10PM Memorial Hall 202 **Return to HOS 303 at 2:45PM**	
	Organs, Systems and Organization Of the Body	Exercise # 1 **Dissection**
	Cell Structure and Function	Exercise # 3
September 13	Cell Transport and Permeability	PhysioEx Handout
	Tissues	Exercise # 4
September 20	Tissues continued	Exercise # 4
	Integumentary System	Exercise # 5
September 27	Practical Exam # 1	
October 4	Skeletal System	Exercises # 6,7,8,9
October 11	Skeletal System continued Articulations	Exercise # 10
October 18	Practical Exam # 2	
October 25	Muscular System-Human	**Dissection**
	Cat **Dissection**	Exercises #12,13,14,15
November 1	Muscular System Continued	**Dissection**
November 8	Histology of Nervous Tissue	Exercise # 16
	Nerve Physiology **Dissection** of Sheep Brain	Exercise# 17 **Dissection**
November 15	Nervous System Physiology: Reflexes	Exercise # 19
	Cranial Nerves And Special Senses	Handout
November 22	Thanksgiving Holiday No Labs	
November 29	Final Practical # 3	

- The instructor reserves the right to change this syllabus as the semester progresses.