Moravian College

Department of Biological Sciences

Anatomy and Physiology - BIO 104

Spring 2014

Instructors:	Dr. Cecilia M. Fox Phone - 610-861-1426 E-mail - cfox@moravian.edu Office: Collier Room 311B Office Hours: T 12:30pm-2:30pm, W 12:30pm-2:30pm and by appt.
	Ms. Marie Hosier Phone – 610-861-1674 Email – memkh01@moravian.edu Office: Collier Room 307 Office Hours: W 10:00am-12:00pm, F 11:00am-1:00pm
Lecture:	Monday, Wednesday and Friday 8:55am-9:45am Collier 204 – Dana Lecture Hall
Lab:	3 sections: Monday, Wednesday or Friday 1:15-4:15pm Collier Hall of Science Room 303
Prerequisites:	Recommend: BIO 103 or by permission of instructor
Textbook:	Seeley's Principles of Anatomy and Physiology – 2nd edition by Philip Tate McGraw Hill
Lab Manual:	Laboratory Manual for Seeley's Principles of Anatomy and Physiology – 2nd edition by Eric Wise McGraw Hill
Lecture Notes:	Supplemental notes and PowerPoint presentations will be posted on Blackboard
Dissecting Kits and Clickers:	Available in the Bookstore *Please wait until after the first class session to purchase the clickers so you know which one will be used in this course.*

Course Description: Biology 104 is part two of the Anatomy and Physiology course. This course offers an in depth study of the anatomy and physiology of human endocrine, digestive, respiratory, circulatory, immune, urinary and reproductive systems. Laboratory includes organ and whole animal dissections and evaluation of physiological processes.

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

a) understand the anatomy of the endocrine, digestive, respiratory, circulatory, immune, urinary and reproductive systems of the human body
b) comprehend the relationships between structure and function within each system

c) recognize the interrelationships among the varied 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 cats and selected organs of other mammals

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
Ten "best" lecture quizzes:	10 points each =	100 points
Case study presentation		100 points
Final lecture exam:		200 points
Class participation and preparation:		100 points
		1000 points

** Both lecture material and textbook readings are fair game for lecture exams.
** The final lecture exam is cumulative.
** Case study assignment will be discussed in the lab sessions 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 exam and **not** after. If you plan to miss a lab please notify me 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**.

a) 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.
b) Reading Assignments: should be completed prior to lecture as well as lab.
c) Lecture Quizzes: A quiz covering the week's material will be given on Fridays. **Make-up quizzes are not offered.**
d) Lab Preparation: You are expected to come to lab prepared for that day's exercise. For each lab session, be sure to bring your: textbook, lab manual, lecture notes and dissection kit.
e) Cell Phones and Pagers: Please turn them off (or at the very least, set on vibrate) before walking into the lecture hall and laboratory. **As a courtesy to your professor, do not type**

text messages during lecture and lab. If it is urgent, please simply leave the room to do your messaging. Thank you.

f) Accommodations: Students who wish to request accommodations in this class for a disability should contact the office 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.

g) Extra Help: If difficulties interpreting lecture or lab material arise, please contact either me or Learning Services for a tutor ASAP. Prof. Hosier and I will also be more than happy to help!!

Lecture Schedule

Week of:	Topic	Reading Assignment
January 13	Introduction Endocrine System - Hormones	Chapter 1 Chapter 15
January 20	**No Class on the 21st** **Martin Luther King Jr. Holiday**	
January 20	Endocrine System - Pituitary Gland, Thyroid Gland, Adrenal, Pancreas, etc	
January 27	Circulatory System - Blood	Chapter 16
February 3	Circulatory System – Heart	Chapter 17
February 5	**Exam 1**	
February 10	Cardiac Cycle	
February 17	Circulatory System - Blood Vessels, Blood Pressure	Chapter 18
February 24	Immune (Lymphatic) System	Chapter 19
February 28	**Midterm of Semester**	
March 3-9	**Spring Break**	
March 10 & 17	Respiratory System Breathing Mech., Control of Breathing, Gas Exchange	Chapter 20
March 12	**Exam 2**	
March 17 & 24	Digestive System	Chapter 21
March 31	Urinary System - Kidneys / Nephron, Urine Formation	Chapter 23

April 7	Urinary System – Elimination of Urine Reproductive System – Male	 Chapter 24
April 9	**Exam 3**	
April 14	Reproductive System – Female	Chapter 24
April 17-21	**Easter Recess**	
April 21	Reproductive System – Female (con't) Pregnancy, Birth Control	Chapter 24 Chapter 25
April 29 **(8:30am)**	**Final Exam**	

Laboratory Schedule

Week of:	Topic	Laboratory Exercise
January 13	Introduction Homeostasis Exercise	Exercises provided in lab
January 20	**No Lab – Martin Luther King Jr. Holiday**	
January 27	Endocrine System Endocrine Rat Lab	Exercise 24 Activity provided in lab
February 3	Circulatory System - Blood	Exercise 25, 26
February 10	Circulatory System - Heart Physio Ex. Activity ***Case Study Presentations***	Exercise 27 Activity provided in lab
February 17	Circulatory System – Blood Vessels Cat Dissection	Exercises 30, 31
February 24	**Lab Practical 1**	
March 3	**Spring Break**	
March 10	Blood Pressure Immune System	Activity provided in lab Exercises 33
March 17	Respiratory System Respiratory Volumes ***Case Study Presentations***	Exercises 35, 36
March 24	Digestion – Chemical and Physical Properties	Exercise 38 Exercise provided in lab

	Cat Dissection	
March 31	Urinary System – Anatomy and Urinalysis ***Case Study Presentations***	Exercises 40,41
April 7	Anatomy of Reproductive System STD exercise	Exercises 42,43
April 14	**Lab Practical 2**	

** As the professor of this course, I reserve the right to alter this syllabus at any time during the semester. **