

Moravian College
Biology Department
Anatomy and Physiology - BIO 104
Spring 2013

Instructors: Dr. Cecilia M. Fox
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Office Hours: T 12:30pm-2:30pm, W 12:30pm-2:30pm
and by appt.

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Office : Collier Room 307
Office Hours: W 10am-12pm, F 10am-12pm

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
Safety Goggles: Available in the Bookstore

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
Primary Literature Assignment:		100 points
Final lecture exam:		200 points
Class participation and preparation:		<u>100 points</u>
		1000 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 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!**

- 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 Learning Services for a tutor ASAP. I will also be more than happy to help!!

Lecture Schedule

<u>Week of:</u>	<u>Topic</u>	<u>Reading Assignment</u>
January 14	Introduction Endocrine System - Hormones	Chapter 1 Chapter 15
January 21	No Class on the 21st Martin Luther King Jr. Holiday	
January 21	Endocrine System - Pituitary Gland, Thyroid Gland, Adrenal, Pancreas, etc	
January 28	Circulatory System - Blood	Chapter 16
February 4	Exam 1	
February 11	Circulatory System – Heart, Cardiac Cycle	Chapter 17
February 18	Circulatory System - Blood Vessels, Blood Pressure	Chapter 18
February 22	Midterm of Semester	
February 25	Immune (Lymphatic) System	Chapter 19
March 4-10	Spring Break	
March 11 & 18	Respiratory System Breathing Mech., Control of Breathing, Gas Exchange	Chapter 20
March 13	Exam 2	
March 18 & 25	Digestive System	Chapter 21
March 29-April 1	Easter Recess	
April 1	Urinary System - Kidneys / Nephron, Urine Formation	Chapter 23

April 8	Urinary System – Elimination of Urine	
April 10	Exam 3	
April 15	Reproductive System – Male and Female	Chapter 24
April 22	Reproductive System – Female (con't)	Chapter 24
April 22	Pregnancy, Birth Control	Chapter 25
April 30 (1:30pm)	Final Exam	

Laboratory Schedule

<u>Week of:</u>	<u>Topic</u>	<u>Laboratory Exercise</u>
January 14	Introduction Homeostasis Exercise	Exercises provided in lab
January 21	No Lab – Martin Luther King Jr. Holiday	
January 28	Endocrine System Physio Ex. Activity	Exercise 24 Activity provided in lab
February 4	Circulatory System - Blood	Exercise 25, 26
February 11	Circulatory System - Heart Physio Ex. Activity	Exercise 27 Activity provided in lab
February 18	Circulatory System – Blood Vessels Cat Dissection	Exercises 30, 31
February 25	Lab Practical 1	
March 4	Spring Break	
March 11	Blood Pressure Immune System	Activity provided in lab Exercises 33
March 18	Respiratory System Respiratory Volumes	Exercises 35, 36
<i>Due to Easter Holiday...</i>		
<i>March 25 (Monday Lab only)</i>	<i>Digestion – Chemical and Physical Exercise 38 Properties Cat Dissection</i>	<i>Exercise provided in lab</i>
<i>April 1 (Wed & Fri. Labs only)</i>	<i>Digestion – Chemical and Physical Exercise 38 Properties Cat Dissection</i>	<i>Exercise provided in lab</i>

April 8	Urinary System – Anatomy and Urinalysis	Exercises 40, 41
April 15	Anatomy of Reproductive System Sexually Transmitted Diseases Endocrine Rat Lab	Exercises 42, 43 Activity provided in lab
April 22	Lab Practical 2	

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

