

Moravian College
Biology Department
Anatomy and Physiology - BIO 104
Spring 2011

Instructor: Dr. Cecilia M. Fox
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Office: Collier Room 304
Office Hours: M 11:30am-1:00pm, T 12:30pm-2:30pm, R 10:30am-11:30am
and by appt.

Lecture: Monday, Wednesday and Friday 8:55am-9:45am
Collier 204 – Dana Lecture Hall

Lab: 2 sections: Wednesday or Friday 1:15-4:15pm
Collier Hall of Science Room 303

Prerequisites: BIO 103 or by permission of instructor

Textbook: Seeley's Principles of Anatomy and Physiology
by Philip Tate
McGraw Hill

Lab Manual: Laboratory Manual for Seeley's Principles of Anatomy and Physiology
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

Three lab exams: 100 points each = 300 points

Ten lecture quizzes: 10 points each = 100 points

Two case studies: 50 points each = 100 points

Final lecture exam: 200 points

Class participation and preparation: 100 points
1100 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 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 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.

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 17	Introduction Endocrine System - Hormones	Chapter 1 Chapter 15
January 24	Endocrine System - Pituitary Gland, Thyroid Gland, Adrenal, Pancreas, etc	
January 31	Circulatory System - Blood	Chapter 16
February 2	Exam 1	
February 7	Circulatory System – Heart, Cardiac Cycle	Chapter 17
February 14	Circulatory System - Blood Vessels, Blood Pressure	Chapter 18
February 21	Immune (Lymphatic) System	Chapter 19
February 23	Exam 2	
February 28, March 14	Respiratory System Breathing Mech., Control of Breathing, Gas Exchange	Chapter 20
March 7-11	Spring Break	
March 14,21	Digestive System Nutrition	Chapter 21 Chapter 22
March 28	Urinary System - Kidneys / Nephron, Urine Formation	Chapter 23
March 30	Exam 3	
April 4	Urinary System – Elimination of Urine	
April 11	Reproductive System – Male and Female	Chapter 24
April 18	Reproductive System – Female (con't)	Chapter 24
April 22-25	Easter Recess	

April 25

Pregnancy, Birth Control

Chapter 25

**May 3
(8:30am)**

Cumulative Final Exam

Laboratory Schedule

<u>Week of:</u>	<u>Topic</u>	<u>Laboratory Exercise</u>
January 17	Introduction Homeostasis Exercise	Exercise provided in lab Exercise 34
January 24	Endocrine System Physio Ex. Activity	Exercise 24 Activity provided in lab
January 31	Circulatory System - Blood	Exercise 25, 26
February 7	Lab Exam 1	
February 14	Circulatory System - Heart Physio Ex. Activity	Exercise 27
February 21	Circulatory System – Blood Vessels Cat Dissection	Exercise 30
February 28	Immune System Lab Practical Review	Exercise 33
March 7	Spring Break	
March 14	Lab Exam 2	
March 21	Respiratory System Respiratory Volumes	Exercises 35, 36
March 28	Digestion – Chemical and Physical Properties/ Nutrition Cat Dissection	Exercise 38 Exercise provided in lab
April 4	Urinary System – Anatomy and Urinalysis	Exercises 40, 41
April 11	Anatomy of Reproductive System Sexually Transmitted Diseases	Exercises 42,43
April 18	No Lab – Easter Holiday	
April 25	Lab Practical 3	

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

