

Moravian College
Biology Department
Anatomy and Physiology - BIO 104
Spring 2010

Instructors:

Lecture/Lab A - Dr. Cecilia M. Fox

Phone - 610-861-1426

E-mail - cfox@moravian.edu

Office: Collier Room 304

Office Hours: M 12-2pm, T 1-3pm

F 12-2pm and by appt.

Lab B: Prof. Marie Hosier

610-703-6045

mkh11@psu.edu

Collier Room 307

F 10am-12pm

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

Ten lab quizzes 5 points each = 50 points

Two case studies: 50 points each = 100 points

Final lecture exam: 200 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 me or 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.**
- 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) 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 18	Introduction Endocrine System - Hormones	Chapter 1 Chapter 15
January 25	Endocrine System - Pituitary Gland, Thyroid Gland, Adrenal, Pancreas, etc	
February 1	Circulatory System - Blood	Chapter 16
February 3	Exam 1	
February 8	Circulatory System – Heart, Cardiac Cycle	Chapter 17
February 15	Circulatory System - Blood Vessels, Blood Pressure	Chapter 18
February 22	Immune (Lymphatic) System	Chapter 19
February 24	Exam 2	
March 1,15	Respiratory System Breathing Mech., Control of Breathing, Gas Exchange	Chapter 20
March 6-14	Spring Break	
March 15,22	Digestive System Nutrition	Chapter 21 Chapter 22
March 29	Urinary System - Kidneys / Nephron, Urine Formation	Chapter 23
March 31	Exam 3	
April 2-5	Easter Recess	
April 5	Urinary System – Elimination of Urine	
April 12	Reproductive System – Male and Female	Chapter 24
April 19	Reproductive System – Female (con't)	Chapter 24
April 26	Pregnancy, Birth Control	Chapter 25
May 5 (1:30pm)	Cumulative Final Exam	

Laboratory Schedule

<u>Week of:</u>	<u>Topic</u>	<u>Laboratory Exercise</u>
January 18	Introduction Homeostasis Exercise	Exercise provided in lab Exercise 34
January 25	Endocrine System Physio Ex. Activity	Exercise 24 Activity provided in lab
February 1	Circulatory System - Blood	Exercise 25, 26
February 8	Lab Exam 1	
February 15	Circulatory System - Heart Physio Ex. Activity	Exercise 27
February 22	Circulatory System – Blood Vessels Cat Dissection	Exercise 30
March 1	Immune System Lab Practical Review	Exercise 33
March 8	No Lab- Spring Break	
March 15	Lab Exam 2	
March 22	Respiratory System Respiratory Volumes	Exercises 35, 36
March 29	No lab – Easter Recess	
April 5	Digestion – Chemical and Physical Properties/ Nutrition Cat Dissection	Exercise 38 Exercise provided in lab
April 12	Urinary System – Anatomy and Urinalysis	Exercises 40, 41
April 19	Anatomy of Reproductive System Sexually Transmitted Diseases	Exercises 42,43
April 26	Lab Exam 3	

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

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Lab Grade Point System: A portion of your final course grade will be determined by the points accumulated in this part of the course from the following criteria:

Three Lab Exams-	100 points each	300 points
Ten Lab Quizzes-	5 points each	50 points
<u>Lab Prep and Participation-</u>	<u>50 points</u>	<u>50 points</u>
Total Possible Points:		400 points

- Exam material will include practical information and readings from the lab manual.
- The Final practical is NOT cumulative and will be held during the final week of classes.
- Lab Quizzes will be held **at 4:00 PM promptly** during the lab period with the exception of practical exam dates. If you are absent during the lab period, you will NOT be eligible to take the quiz that week.

Expectations

- a) Attendance: Regular attendance in the laboratory is expected of all students. Attendance will be monitored. **No make-up practical exams** will be given to any student who misses an exam except in the case of an emergency. You must notify me **BEFORE** the exam if you are going to be absent. Special documentation may be required if a make-up exam is to be considered. If for any reason you are going to miss a regular lab session, please notify me in advance by phone or email. Students are allowed one absence from a lab session during the spring semester. If for any reason a student leaves lab early for an event such as a doctor's appointment, meeting, spring break, etc – point deductions will be applied to the lab preparation and participation grade.

Students may be allowed to attend the alternate lab for that week if they know in advance there is a conflict in their schedule. These switches must be approved by the lab instructor prior to the lab week in question.

As in lecture, absences are not divided into excused and unexcused. Regardless of the reason, an absence from 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: All readings should be completed before each lab session. Handouts may also be provided on the day of a lab session (there will be plenty of time to review the information prior to carrying out the instructions).
- d) Lab Quizzes: There are ten lab sessions which will include a lab quiz worth 5 points. These quizzes will be held at **4:00 PM** promptly. There will be no quizzes during lab weeks when lab practical exams are scheduled.
- e) Lab Preparation: You will be expected to come to lab prepared for the exercise material of each week. You must bring your lab manual, textbook, lecture and lab notes, dissection kits and protective eyewear.