

Moravian College  
Department of Biological Sciences  
Anatomy and Physiology-Bio 104  
Laboratory Syllabus  
Spring 2010

Instructor: Mrs. Marie Kennedy Hosier  
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Office Hours: Friday 10:00AM-12:00PM or by appointment  
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Lab Sections: Fridays 1:15 PM- 4:15 PM in Collier Room  
Lab Manual: Laboratory for Seeley's Principles of Anatomy and Physiology  
by Eric Wise  
McGraw Hill Publishers  
Dissecting Kits and Protective Eyewear Will need to be purchased  
Available in the bookstore

Course Description: The laboratory instruction in this course is a continuation into the practical investigation of the following body systems; Endocrine, Circulatory, Immune, Respiratory, Digestive, Urinary, and Reproductive. The lab will include microscopic investigation of histological slides, an in-depth study of several body systems and their physiology, and dissections of the cat.

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

- a) identify the human anatomy of the Endocrine, Circulatory, Immune, Respiratory, Digestive, Urinary, and Reproductive Systems.
- b) understand the relationships between structure and function in the aforementioned systems
- c) recognize the different types of cells and tissues found in the various systems
- d) appreciate the complexity of living organisms through dissection of selected mammalian organs and organisms

Grading: Please refer to Dr. Cecilia Fox's Lecture Syllabus for the grading system

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 Practicals-	100 points each	300 points
10 Lab Quizzes-	5 points each	50 points
Attendance-	50 points	50 points
Total Lab Points Possible		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: Attendance in the lab is expected of all students. Attendance will be strictly monitored. NO make-up practical exams will be given to any student who misses an exam except in cases of emergencies. You must notify me immediately and BEFORE the exam is given if you are going to miss an exam. Any no-shows for an exam will NOT be given consideration for a make-up exam. If for any reason you are going to miss a regular lab session, please notify me in advance by email. Students are allowed one missed lab session. After the first missed lab, 25 points will be deducted from your grade. After the second missed lab another 10 points will be deducted. If for any reason a student leaves lab early for ANY reason such as a doctor's appointment, meetings, Fall break vacations, small incremental deductions will apply to the attendance grade.
- Students will 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.
- ABSENCES ARE NOT DIVIDED INTO EXCUSED AND UNEXCUSED. REGARDLESS OF THE REASON AN ABSENCE WILL BE 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 the lab. Handouts for the lab will be provided on the day of the lab however; there will be plenty of time to review the handouts 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 where Lab practical exams are scheduled or of course during Thanksgiving break.
- 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.
- f) Extra Help: Here at Moravian College we pride ourselves for being available to help our students achieve their academic goals to the best of our abilities. If for any reason you need help with the lab material presented, please contact me at my office, during or after lab, or even on my cell phone. It is important for you to know that I will make myself available for tutoring as you need it.
- ☛ Please be aware that I also teach at Penn State Lehigh Valley and not be on the Moravian College Campus on Monday Afternoons, Tuesdays and Thursdays.
- g) Cell Phones and Pagers: ALL cell phones (including mine) must be turned off before entering the lab. The use of cell phones (including text messaging) and pagers is strictly prohibited in lab. Anyone found receiving or sending calls or messages during lab will be asked to leave. During a three hour lab, breaks for the restroom and refreshments are incorporated. You may use these times to make those important phone calls.

## Laboratory Schedule

Week of:	Topic	Laboratory Exercise
January 18	Introduction Homeostasis Exercise	Handout 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	<b><u>Lab Exam # 1</u></b>	
February 15	Circulatory System-Heart Physio Ex. Activity	Exercise 27
February 22	Circulatory System-Blood Vessels Cat Dissection	Exercise 30
March 1	Immune System	Exercise 33
March 8	<b>No Lab Spring Break</b>	
March 15	<b><u>Lab Exam # 2</u></b>	
March 22	Respiratory System Respiratory Volumes	Exercises 35, 36
March 29	<b>No Lab -Easter Recess</b>	
April 5	Digestion-Chemical and Physical Properties/Nutrition Cat Dissection *Students supply 5 grams of Food*	Exercise 38 Exercises provided in Lab
April 12	Urinary System-Anatomy And Urinalysis *Need Volunteers for a week of consumption of Sugar and Protein*	Exercises 40, 41
April 19	Anatomy of Reproductive System Sexually Transmitted Diseases	Exercises 42, 43 Handout
April 26	<b><u>LAB EXAM #3</u></b>	