

Moravian College
Biology Department
Anatomy and Physiology - BIO 104
Spring 2012

Instructor: Mrs Marie Kennedy Hosier, MS
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Office: Collier Room 307
Office Hours: M 11:30am-1:00pm, Wednesday and Friday 11:30-1:00
or by appointment

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 second edition
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.**

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: should be completed prior to lecture as well as lab.

d) Lecture Quizzes: A quiz covering the week's material will be given on Fridays. **Make-up quizzes are not offered.**

e) 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.

f) 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!**

g) 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.

h) 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!!

<u>Lecture Schedule</u>		
<u>Week of:</u>	<u>Topic</u>	<u>Reading Assignment</u>
January 16, 17, 19	Introduction	Chapter 1

	Endocrine System - Hormones	Chapter 15
January 23, 25, 27	Endocrine System - Pituitary Gland, Chapter 15 Thyroid Gland, Adrenal, Pancreas, etc	
January 30	Circulatory System - Blood	Chapter 16
February 1	Exam 1- Chapters 1 and 15	
February 3, 6, 8, 10	Circulatory System – Heart, Cardiac Cycle	Chapter 17
February 13, 15, 17	Circulatory System - Blood Vessels, Blood Pressure	Chapter 18
February 20, 22, 24	Immune (Lymphatic) System	Chapter 19
February 27	Respiratory System	Chapter 20
February 29	Exam 2 -Chapters 16, 17, 18	
March 2	Breathing Mech., Control of Breathing, Gas Exchange	Chapter 20
March 3-11	Spring Break	
March 12, 14, 16 19, 21, 23	Digestive System Nutrition	Chapter 21 Chapter 22
March 26, 30	Urinary System - Kidneys / Nephron, Urine Formation	Chapter 23
March 28	Exam 3-Chapters 19, 20, 21, 22	
April 2, 4	Urinary System cont'd	
April 5-9	Easter Recess!	
April 11, 13	Urinary System Cont'd	Chapter 23
April 16, 18	Reproductive System – Male and Female	Chapter 24
April 20, 23	Reproductive System – Female (con't)	Chapter 24
April 25, 27	Pregnancy, Birth Control	Chapter 25
May	Cumulative Final Exam	

Laboratory Schedule

<u>Week of:</u>	<u>Topic</u>	<u>Laboratory Exercise</u>
January 16	Introduction	Exercise provided in lab

	Homeostasis Exercise	Exercise 34
January 23	Endocrine System Physio Ex. Activity	Exercise 24 Activity provided in lab
January 30	Circulatory System - Blood	Exercise 25, 26
February 6	Lab Practical # 1	
February 13	Circulatory System - Heart Physio Ex. Activity	Exercise 27
February 20	Circulatory System – Blood Vessels-Cat Dissection	Exercise 30
February 27	Immune System	Exercise 33
March 5	Spring Break!	
March 12	Respiratory System Respiratory Volumes	Exercises 35, 36
March 19	Lab Practical # 2	
March 26	Digestion – Chemical and Physical Properties/ Nutrition Cat Dissection	Exercise 38 Exercise provided in lab
April 2	No Lab – Easter Holiday	
April 9	Urinary System – Anatomy and Urinalysis	Exercises 40, 41
April 16	Anatomy of Reproductive System Sexually Transmitted Diseases	Exercises 42,43
April 23	Lab Practical # 3	

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