

Moravian College
Department of Biology
Anatomy and Physiology - BIO 103
Fall 2005

Instructor: Dr. Cecilia M. Fox
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Office: Collier Science Room 304
Office Hours: Monday, Wednesday and Thursday 10am-12pm, Tuesday 1-2:00pm
and by appointment
Lecture: M,W, F 9:10am - Collier Science - Dana Lecture Hall
Lab: 2 sections: W or F 12:45-3:45pm - Collier Science Room 303
Textbook: Anatomy and Physiology - 2nd edition
by Elaine N. Marieb
Benjamin Cummings
Lab Manual: Laboratory Manual for Anatomy and Physiology
2nd edition
by Elaine N. Marieb
Benjamin Cummings
Lecture Notes: Anatomy and Physiology: Lecture Outline and Diagrams
Available on reserve in Reeves Library
Dissecting Kits: Will need to be purchased by September 7th and 9th lab sessions
Available in the Bookstore

Course Description: This course offers an in depth anatomical and physiological study of the human integumentary, skeletal, muscular and nervous systems. Concepts and principles important to the understanding of the human body are addressed in lecture as well as case study assignments of clinical situations. Laboratory includes fetal pig and organ dissections, microscope study of tissues and evaluation of physiological processes.

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

- a) understand the human anatomy of the integumentary, skeletal, muscular and nervous systems
- b) understand the relationships between structure and function in the various systems
- c) recognize the different types of cells and tissues found in these 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 selected mammalian organs

Grading: The grading system is as follows:

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 Lecture Quizzes:	10 points each =	100 points
Final lecture exam:		200 points
Case study assignments	50 points each =	100 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.
- ** Case study assignments will be discussed as the course progresses.
- ** The “class participation / preparation grade” is based on your participation in lecture as well as your preparation for lab.
- ** 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 class participation grade. Another 10 points will be deducted from your class 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.
- 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) *Extra Help:* If difficulties interpreting lecture or lab material arise, please contact me for extra tutoring sessions. *I will be more than happy to help!*
- g) *Cell Phones/Pagers:* Please turn off all cell phones and pagers prior to entering the lecture hall and laboratory.

Tentative Lecture Schedule

<u>Week of</u>	<u>Topic</u>	<u>Reading Assignment</u>
Aug. 29	Orientation to the Human Body Chemical Comes Alive (a review)	Chapter 1 Chapter 2
Sept. 5	Cells: The Living Units	Chapter 3
Sept. 12	Cells (con't) Cellular Metabolism (a brief intro)	
Sept. 19	Tissue: The Living Fabric	Chapter 4
Sept. 26	Integumentary System Bones and Skeletal Tissues	Chapter 5 Chapter 6
Sept. 28	Exam 1 (Intro through Tissue)	
Oct. 3	The Skeleton	Chapter 7
Oct. 10,17	Joints Muscles and Muscle Tissue	Chapter 8 Chapter 9
Oct. 10-11	Fall Recess	
Oct. 17	Muscular System	Chapter 10
Oct.24	Muscular System	Chapter 10
Oct. 28	Exam 2 (Integumentary through Skeletal Systems)	
Oct. 31	Muscular System	
Nov. 7	Muscular System Fundamentals of Nervous System and Nervous Tissue	Chapter 11
Nov. 14-16	No Class (Society for Neuroscience Conference)	

Nov. 14 (class will meet on Fri)	Fundamentals of Nervous System and Nervous Tissue	Chapter 11
Nov. 21	Exam 3 (Muscular System)	
Nov. 23-25	Thanksgiving Holiday	
Nov. 28	Central Nervous System Peripheral Nervous System	Chapters 12 Chapter 13
Dec. 5	Autonomic Nervous System and Special Senses	Chapter 14
Dec. 12	Review	
December 14-20	Final Exam Week	

Laboratory Schedule

<u>Week of</u>	<u>Topic</u>	<u>Laboratory Exercise</u>
Aug. 29	Introduction to Clinical Database Searchers Homeostasis Resting Pulse Rate	Reeves Library (1pm) Exercises provided in lab
Sept. 5	The Language of Anatomy Organ Systems Overview	Exercises 1, 2
Sept. 12	Care/Use of Compound Microscope The Cell: Anatomy and Division	Exercise provided in lab Exercise 3
Sept. 19	Classification of Tissues	Exercises 5
Sept. 26	Integumentary System	Exercise 6
Oct. 3	Skeletal System	Exercises 7, 8, 9
Oct. 10	Joints and Body Movements Review Skeletal System	Exercise 10
Oct. 17	Lab Exam 1 (Introduction-Joints)	

Oct. 24	Muscular System Fetal Pig Dissection	Exercise 12 Exercise provided in lab
Oct. 31	Muscular System (con't)	
Nov. 7	Histology of Nervous Tissue Dissection of Sheep Brain Human Reflex Physiology	Exercises 13, 22 Exercise 19 Exercise 16
Nov. 14	No Lab (Society for Neuroscience Conference)	
Nov. 21	Thanksgiving Holiday	
Nov. 28	Cranial Nerves and Special Senses Exercise	Exercise 17
Dec. 5	Lab Exam 2 <i>(Muscular System-Special Senses)</i>	

(Professor reserves the right to amend this syllabus as the course progresses.)