Moravian College

Department of Biology Anatomy and Physiology - BIO 103 Fall 2006

Instructors: Dr. Cecilia M. Fox*

Dr. Marie Hosier (first half of the semester)

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Office: Collier Science Room 304 (Dr. Fox)

Office Hours: Monday 12-2pm, Tuesday 10am-1pm and by appointment (Dr. Fox)

Tuesday 9am- 10am, Wed 10am-12pm and by appointment (Dr. Hosier)

Lecture: M, W, F 9:10am-10am - Room TBA

Lab: 2 sections: W or F 12:45-3:45pm - Collier Science Room 303

Textbook: <u>Anatomy and Physiology</u> – 2nd edition

by Elaine N. Marieb Benjamin Cummings

Lab Manual: <u>Laboratory Manual for Anatomy and Physiology</u>

2nd edition

by Elaine N. Marieb Benjamin Cummings

Dissecting Kits: Will need to be purchased by September 6th and 8th lab sessions

Available in the Bookstore

<u>Course Description:</u> 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.

<u>Course Objectives</u>: 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

^{*} Dr. Fox will be on maternity leave for the first half of the semester.

Grading: The grading system is as follows:

A = 90 - 100B = 80 - 89

C = 70.79

D = 60 - 69

Your final grade will be based on the following criteria:

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Three lecture exams:	100 points each =	300 points
Two lab exams:	100 points each =	200 points
Best ten Lecture Quizzes:	10 points each =	100 points
Final lecture exam:		200 points
Case study assignments	50 points each =	100 points
Class participation and prep	100 points	
		1000 points

- ** Both lecture material and textbook readings are fair game for lecture exams.
- ** The final lecture exam is <u>cumulative</u>.
- ** 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 your professor for extra tutoring sessions. We 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

Week of	Topic	Reading Assignment
Aug. 28	Orientation to the Human Body Chemistry Comes Alive (a rev	Chapter 1 iew) Chapter 2
Sept. 4	Cells: The Living Units	Chapter 3
Sept. 4	No Class (Labor Day)	
Sept. 11	Cells (con't) Cellular Metabolism (a brief in	ntro)
Sept. 18	Tissue: The Living Fabric	Chapter 4
Sept. 25	Integumentary System	Chapter 5
Sept. 27	Exam 1 (Intro through Tissue)	
Oct. 2	Bones and Skeletal Tissues	Chapter 6
Oct. 9	The Skeleton	Chapter 7
Oct. 9-10	Fall Recess	
Oct. 16	Joints Muscles and Muscle Tissue	Chapter 8 Chapter 9
Oct. 23	Muscular System	Chapter 10
Oct. 25	Exam 2 (Integumentary through Skeletal Systems)	
Oct. 30	Muscular System	Chapter 10
Nov. 6	Muscular System	

Nov. 13	Exam 3
	(Muscular System)

Nov. 13 Fundamentals of Nervous System Chapter 11

and Nervous Tissue

Nov. 20 Fundamentals of Nervous System Chapter 11

Nov. 22-26 Thanksgiving Holiday

Nov. 27 Central Nervous System Chapters 12
Peripheral Nervous System Chapter 13

Dec. 4 Autonomic Nervous System

and Special Senses Chapter 14

Dec. 11 Review

December 13-19 Final Exams

Laboratory Schedule

Week of	<u>Topic</u>	<u>Laboratory Exercise</u>
Aug. 28	Introduction to Clinical Database Searchers Homeostasis Resting Pulse Rate	Reeves Library Exercises provided in lab
Sept. 4	The Language of Anatomy Organ Systems Overview	Exercises 1, 2
Sept. 11	Care/Use of Compound Microscope The Cell: Anatomy and Division	Exercise provided in lab Exercise 3
Sept. 18	Classification of Tissues	Exercises 5
Sept. 25	Integumentary System	Exercise 6
Oct. 2	Skeletal System	Exercises 7, 8, 9
Oct. 9	Joints and Body Movements Review Skeletal System	Exercise 10

Oct. 16	Lab Exam 1 (Introduction-Joints)	
Oct. 23	Muscular System Fetal Pig Dissection	Exercise 12 Exercise provided in lab
Oct. 30	Muscular System (con't)	
Nov. 6	Muscular System Review Introduction to the Nervous System Histology of Nervous Tissue	Exercises 13, 22
Nov. 13	Dissection of Sheep Brain Human Reflex Physiology	Exercise 19 Exercise 16
Nov. 20	Thanksgiving Holiday	
Nov. 27	Cranial Nerves and Special Senses Exercise	Exercise 17
Dec. 4	Lab Exam 2 (Muscular System-Special Senses)	

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