

HUMAN ANATOMY AND PHYSIOLOGY

Biology 121 - Fall 2001

Dr. Steve Baker

Office: Pierce 117

Course Objectives:

1. Understand the basic language of anatomy and learn basic anatomical terms and regions.
2. Be able to define homeostasis and its importance in human physiology.
3. Review the lower levels of organization of the body, including body chemistry, cell structure and function, and tissue organization.
4. Study in depth the integumentary, skeletal, muscular, and nervous systems, emphasizing the structure/function relationships that are critical in the study of anatomy and physiology.
5. Review basic clinical applications as they relate to each system.
6. By using case studies, enhance both critical thinking and writing skills.



Tentative Syllabus:

Date	Topic	Chapter
Aug. 31	Introduction to Course Finding your way around	1
Sept. 3	LABOR DAY HOLIDAY!!!! Work Hard!!!	
5	Cont., Homeostasis	1
7	Body Chemistry	2
10	Cellular Organization	3
12	Cellular Organization	3
14	Tissue Level of Organization	4
17	Cancer	
19	Integument 1	5
<i>THURSDAY, SEPTEMBER 20 - EXAM I 8:00 AM- Covers through Tissues</i>		
21	Integument 2	5
24	Wrap up Integumentary System	5
26	Skeletal Tissue	6
28	Fractures and Other Problems	6: 190-193
Oct. 1	Axial Skeleton 1	7
3	Axial Skeleton 2	7
5	Appendicular Skeleton	8
8	Articulations 1	9
10	Articulations 2	9

	12	Joint Diseases	9
	15-16	FALL BREAK!!!	
	17	Wrap up Skeletal System Introduction to Muscle Tissue	10
<i>THURSDAY, OCTOBER 18, EXAM 2, 8:00 AM – Covers cancer through skeletal system, does not include joint disease material</i>			
	19	Muscle Tissue & Contractions 1	10
	22	Muscle Tissue & Contractions 2	10
	24	Muscle Actions & Groups 1	11
	26	Muscle Actions & Groups 2	11
	29	Nervous System 1	12
	31	Nervous System 2	12
Nov.	2	Spinal Cord & Spinal Nerves	13
	5	Spinal Cord & Spinal Nerves	13
	7	Introduction to the Brain	14
	9	Brain & Cranial Nerves 1	14
	12	Brain & Cranial Nerves 2	14
	14	Brain & Cranial Nerves 3	14
<i>THURSDAY, NOVEMBER 8, EXAM 3, 8:00 AM : Covers muscles through spinal cord and spinal nerves</i>			
	16	Brain & Cranial Nerves 4	14
	19	Brain & Cranial Nerves 5	14
	21	Sensory & Motor Neurons 1	15

22-23	THANKSGIVING BREAK	
26	Sensory & Motor Neurons 2	15
28	Sensory & Motor Neurons 3	15
30	Special Senses 1	17
Dec. 3	Special Senses 2	17
5	Special Senses 3	17
7	Autonomic Nervous System 1	16
10	Autonomic Nervous System	16

Course Information:

Class meets in Pierce 101, 9:35 am, MWF

Lab meets in Pierce 123, 2:00-5:00, Monday

Course Web Page:

<http://www.oxford.emory.edu/OXFORD/RESTRICTED/UNIVERSITY/Courses/baker/Bio121/>

Textbooks and Laboratory Manuals:

- a. Fundamentals of Anatomy and Physiology, Martini, 5th Edition, 2001.
- b. Anatomy and Physiology Lab Manual, Wise
- c. A Guide to Anatomy and Physiology Lab, Thomas G. Rust, Second Edition, 1986, **Optional**.
- d. Dissection Kit available in Bookstore. You will need these by October 28.
- e. I advise you to buy a large 3 ring notebook for your notes; it makes the handouts easier to “handle”.

Evaluation:

You will be evaluated on the basis of the following:

Lecture Exams	300 points
Lab Practicals	150
Case Study	50 (5 @ 10 pts.)
AJN Article Reviews	20
In-lab quizzes	25
Final Exam	150

Points totals are approximate. I reserve the right to vary them somewhat.
I grade on the 90-100 scale for A, 80-90 for B, etc... Plus-minus scale will be used.
For pre-nursing students, let me remind you that a minimum grade of C- is required in this course.

There are several learnlink conferences for this class. I encourage you to use these—I will check LL regularly and will post review questions for discussion. Regular participation in LL will have a positive influence on your grade!

Attendance:

Our attendance policy is addressed in the departmental policy received as a handout. Excessive absences will result in a reduction of your grade. Frequent tardies are rude and will not be tolerated, and will also lead to a grade reduction.

Honor Code:

I enforce strictly all aspects of the Honor Code. I will work with you concerning citation formats for any papers, and for each assignment, we will discuss specific Honor related concerns.

Dissection:

Lab exercises in Biology 121 require dissection of sheep brains, sheep eyes, and extensive dissection of cats. Classroom dissections will be incorporated into lab exams.

Miscellaneous :

Office hours are 9:00-10:00 TT, 11:00-12:00 MWF, however you are welcome in my office at any time. I always have time to talk to you, whether it involves classwork or just to visit. You will find I am around most of the time.

***This is your class - let's make it an enjoyable one!**

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Laboratory Schedule

Date	Topic	Lab Exercises
September 10	Microscopy and Introduction to the Human Body	1, 2, 3
September 17	Cells and Cellular Transport	4, 5
September 24	Tissues and the Integumentary System	6, 7
<i>October 1</i>	<i>Lab Exam #1</i>	
October 8	Osseous Tissue and Bones Axial Skeleton/Medical Imaging	8, 10, 11
October 15-16	FALL BREAK!!!!	
*October 22	Appendicular Skeleton, Articulations Cat Skinning	9, 12; p. 152-154 13-18, Cat Dissection Only
*October 29	Muscles	
*November 5	Muscles	
<i>November 12</i>	<i>Lab Exam #2</i>	
*November 19	Nervous System I - Brain and Cranial Nerves	20, 21, 22
*November 26	Nervous System II - Sensory Reception, Olfaction, Taste	23, 24, 25

*December 3

Vision, Hearing, Equilibrium

26, 27

December 10

Lab Final

***Bring dissection kits for these labs**

You should always bring your lab manual, lecture text and Rust to each lab.

Lab is from 2-5 Monday, Pierce 123. Occasionally the first portion of lab may be used to allow us to catch up in lecture or for other activities.

Short “exit quizzes” will be given near the end of each lab period to allow assessment of your learning.

Please see me if you have any questions. I'm looking forward to working with you!!