

**SPRING 2004 COURSE SYLLABUS FOR HUMAN PHYSIOLOGY LECTURE (BIRU 3232)
AND LAB (BIRU 3242) COURSES**

Instructor: Levente Kapás, M. D.

Office Hours: Tuesday 2:30 – 4:30 pm
Friday 2:30 – 4:30 pm
Also, by appointment.

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Textbooks: Sherwood, L., Human Physiology: from cells to systems. 5th edition. Brooks Cole, 2003. ISBN 0534395015

The book is available from the bookstore or from internet retailers such as
www.ecampus.com or www.amazon.co.uk

Recommended Books: Guyton, A. C. and J. E. Hall, Textbook of Medical Physiology. 10th edition. W.B. Saunders Co., Philadelphia, PA, 2000.
Kandel, E. R., J. H. Schwartz, and T. M. Jessel, Essentials of Neural Science and Behavior, Appleton and Lange, Norwalk, CT, 1995.

Course on the web: Electronic Reserve Room at Fordham Library (<http://reserves.library.fordham.edu>)
Course Home Page at <http://www.geocities.com/fordhamphysiology>

<u>Grading of the lecture course:</u>	5 lecture exams @ 100 points each	= 500 points
	1 final exam (comprehensive)	= <u>200 points</u>
	TOTAL:	= 700 points

<u>Grading of the lab course:</u>	2 lab exams @ 30 points each	= 60 points
	Journal Club	= 30 points
	1 final exam (comprehensive)	= 50 points
	lab reports, quizzes	= 40 points
	participation	= <u>40 points</u>
	TOTAL:	= 220 points

The lecture exams cover the information discussed during lecture and the reading assignments. The laboratory exams include the information summarized in the laboratory introduction, methods, and analysis of the results. The standard Fordham University grading system will be used to determine the final grade for the entire course: A = 93-100%, A- = 90-92%, B+ = 87-89%, B = 83-86 %, B- = 80-82%, C+ = 77-79%, C = 73-76%, C- = 70-72%, D = 60-70%.

Attendance: You are required to attend all lectures and laboratory exercises. If a student is absent from an exam, he/she will receive a grade of 0 for that exam; he/she can take a substitute exam if a letter from a physician is presented stating that he/she was too ill to attend class on the day of the exam. The data sheets will be examined during each laboratory period; ten points will be deducted from the course total for each laboratory period not attended.

The Fordham College policy on Academic Integrity will be enforced.

Laboratory Rules:

1. No eating, drinking or smoking in the laboratory.
2. Any injury must be reported to the instructor.
3. Some laboratory exercises require that the students make measurements on themselves. If you have a medical condition that you feel may be aggravated by the exercise, please inform the instructor. No one will be compelled to perform an exercise if it will adversely affect his/her health.

SCHEDULE

Date	Lecture	Pages	Lab
01/22	Introduction	2-16	
01/26	Cell and Membrane	50-103	
01/29	Muscle	240-281	Blood
02/02	<u>Blood and Immune System</u>	369-432	
02/05	Heart I.	283-300	Histology I., Lecture Exam 1.
02/09	Heart II.	301-321	
02/12	Circulation I.	323-350	Histology II.
02/17	Circulation II.	351-367	
02/19	Respiration I	343-450	Heart, Circulation
02/23	Respiration II.	451-481	
02/26	Excretion	484-515	Respiration, Statistics, Lecture Exam 2.
03/01	Excretion and Acid-Base Balance	516-558	
03/04	Gastrointestinal System I.	560-590	Urine Analysis, Lab Exam 1.
03/08	<u>Gastrointestinal System II. Energy</u>	591-633	
03/10	Endocrinology I.	635-650	Rat dissection, Lecture Exam 3.

03/22	Endocrinology II.	651-670	
03/24	Endocrinology III.	671-714	EEG, Polygraphy, EMG, EOG, Stretch Reflex,
03/29	Endocrinology IV.	715-765	
04/01	Introduction to the Nervous System	89-121, 222-238	Digestive System, Lecture Exam 4.
04/05	Autonomic Nervous System		
04/15	Sensory Functions of the N.S.	123-140	Sensory Organs, Lab Exam 2.
04/19	Vision	174-200	
04/22	Hearing, Equilibrium, Chemical Senses	200-220	Journal Club
04/26	Motor Functions of the N.S.	162-172, 229-238	
04/29	Memory, Sleep	TBA	Lab Final Exam
05/03	Lecture Exam 5.		