Biology 122 – Human Anatomy and

Instructor: Rebekah Chapman
Office: Room 235, Humanities Bldg. & Biology Prep Room, Pierce Hall
Office Hours: Wednesday 8:30-9:25am, other times available by appointment
If you are unable to meet during office hours, e-mail me to schedule an appointment.
E-mail: Learnlink (preferred) or rebekah.chapman@emory.edu

Lecture Hours: MWF 9:35 – 10:25AM, Room 207, Pierce Hall
Laboratory: Monday 2:00– 5:00PM, Room 119, Pierce Hall

Required Texts:

- *Anatomy and Physiology*, by F.H. Martini. 2005. 1st Edition. Benjamin/Cummings Publishing Co., Inc.
- *Human Anatomy and Physiology Lab Manual*, Cat version, by Elaine N. Marieb. 2005. 8th Edition. Benjamin/Cummings Publishing Co., Inc.

Required Lab Materials:

- Dissection Kit. Available in bookstore.

Recommended Lab Supplement:

- *A Guide to Anatomy and Physiology* by T.G. Rust. Southwest Educational Ent. This is **HIGHLY** recommended for this semester**.**

Course Objectives: Biology 122 is a continuation of Biology 121 (the prerequisite for this course). In Biology 122, Anatomy and Physiology II you will:

- Continue to learn about the physical characteristics (anatomy) and the chemical mechanisms (physiology) of the human body.
- Study the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems in detail.
    - These systems will be studied at the macroscopic and microscopic levels, paying attention to the body as a whole.
- Apply this knowledge to real-world scenarios by studying journal articles from Health Science fields as well as case studies relevant to the different organ systems.
- Learn techniques such as blood pressure monitoring and blood typing.
- Have hands-on experience in the laboratory to study and dissect specimens and conduct physiological analyses while focusing on the anatomical and physiological terms applicable to each organ system.

Please read this syllabus carefully and clarify any items about which you have questions – this is your guide for Biology 122! Information in this syllabus is subject to change during the semester, so please pay attention to any changes made during the semester – pay close attention to class announcements!

EXPECTATIONS, EVALUATION, GRADING

Honor Code: Students are expected to abide by the *Oxford College Honor Code.* All assignments should include a signed pledge that no unauthorized aid has been given or received. To read the complete statement of the Honor Code, please see *http://www.emory.edu/OXFORD/CampusLife/Policies/honor.html.*

Attendance: Attached you will find the *Biology Department Absence Policy*. Absences, tardiness or a failure to follow the procedures outlined in the handout may result in a reduction in your grade, so please read the guidelines carefully – they apply to you!

Cell phones: Must be OFF during lecture and are NOT PERMITTED in labs or exams.

Lecture Exams: There will be three lecture exams, each worth 100points, and one final exam (cumulative) worth 150 points. Lecture exams will be held on Tuesdays and Thursdays from 8-9:30am (see syllabus for dates) and cover the topics indicated including the textbook readings, lecture notes and relevant laboratory concepts.

Laboratory Practical Exams: The three lab practical exams, each worth 50 points, will be held on the dates specified in the laboratory syllabus. These will cover the material learned in relevant laboratories.

Written Assignments: Writing assignments for this course include article summaries, case studies and summaries of group work. These will be described in more detail when they are assigned in class. You will work in groups on some of these assignments, but must still be careful that the written assignments are your own and all literature is properly referenced. All written assignments must be **typed** and printed double spaced (front/back printing is accepted).

Class Participation: You will be evaluated on your participation in lecture, lab and group discussions. Participation is expected; failure to do so will result in reduction of your grade (up to 10%). The 15 participation points will be assigned for preparation and participation in class/lab.

Late work: Assignments turned in after the due date will have 10% taken off per day.

Point Summary:

300 points	3 lecture exams
150 points	3 laboratory exams
150 points	final exam (cumulative)
50 points	written assignments
15 points	class participation
665 points	Total

Final Grades:
90 – 100% A 80 – 89% B 70 – 79% C 60 – 69% D <60% F
(+/- grades are given for all categories: A, B, C, D)

A minimum grade of C- in this course is required for pre-nursing students.

Biology 122 – Human Anatomy and Physiology II

Date	Topic	Reading
W-Jan. 16	Introduction to the Endocrine System	Ch. 16
F- Jan. 18	Pituitary Gland	Ch. 16
M- Jan. 21	*MLK day – NO CLASS*	
W- Jan.23[1]	Thyroid and Parathyroid	Ch. 16
F- Jan. 25	Adrenal and Pancreas	Ch. 16
M- Jan. 28	Endocrine disorders	Ch. 16
W- Jan. 30	Blood – Composition and production	Ch. 17
F- Feb. 1	Blood types and blood disorders	Ch. 17
M - Feb. 4	Heart – Anatomy and conduction	Ch. 18
W - Feb. 6	Heart – Physiology and EKG	Ch. 18
Thursday Feb. 7	**EXAM I: 8:00 – 9:30AM**	**Ch. 16, 17 &18***
F – Feb. 8	Heart – Problems	Ch. 18
M – Feb. 11	Heart – Eliminating risk factors	Ch. 18
W – Feb. 13	Blood vessels – Organization	
F – Feb. 15	Blood vessels – Filtration and blood pressure	Ch. 19
M – Feb. 18	Immune System – Organs	Ch. 19
W – Feb. 20	Non-specific and specific immunity	Ch. 20
F – Feb. 22	AIDS and other immune disorders	Ch. 20
M – Feb. 25	Respiratory System – Introduction	Ch. 20
W – Feb. 27	Upper Respiratory System	Ch. 21
F – Feb. 29	Lower Respiratory System	Ch. 21
M – Mar. 3	Gas exchange	Ch. 21
W – Mar. 5	Review and Catch up	Ch. 21
Thursday Mar. 6	**EXAM II: 8:00 – 9:30AM**	**Ch. 18 - 21**
F – Mar. 7[2]	Digestive System - Introduction	Ch. 22
Mar. 10-14	*Spring Break!*	
M – Mar. 17	Digestive System – Organization	Ch. 22
W – Mar. 19	Pharynx, Esophagus and Stomach	Ch. 22
F – Mar. 21	Small Intestine, Pancreas and Liver	Ch. 22
M – Mar. 24	Large Intestine, Digestive disorders	Ch. 22
W – Mar. 26	Metabolism – General Overview	Ch. 23
F – Mar. 28	Review & Catch up	
M – Mar. 31	Urinary System Overview	Ch. 24
W – Apr. 2	Urinary System – Kidneys	Ch. 24
F – Apr. 4	Urinary System – Physiology	Ch. 24

[1] Last Day to Change Classes (last day of drop/add)
[2] Last Day for Changing Classes w/out Academic Penalty

M – Apr. 7	Urinary System – Physiology	Ch. 24
W – Apr. 9	Urinary System – Disorders	Ch. 24
Thursday Apr. 10	**EXAM III: 8:00 – 9:30AM**	**Ch. 22 & 23 (24*)**
F – Apr. 11	Reproductive System – Overview	Ch. 26
M – Apr. 14	Male and female anatomy	Ch. 26
W – Apr. 16	Sex hormone cycles	Ch. 26
F – Apr. 18	Sex and sexual response	Ch. 26
M – Apr. 21	Disorders of the Reproductive System	Ch. 26
W – Apr. 23	Conception	Ch. 27
F – Apr. 25	Pregnancy and Development	Ch. 27
M – Apr. 28	Development and Birth	Ch. 27
W – Apr. 30	Reading Day – No Classes	
F – May 2	**Final Exam: 2:00-5:00PM**	Cumulative

Biology 122 – Human Anatomy and Physiology II

Date	Topic	Supplies	Lab Exercise/Reading
Jan. 28	Endocrine System (bring Rust!)	Lab Manual Rust Guide	Exercises 27 & 28A
Feb. 4	Blood	Lab Manual Rust Guide	Ex. 29A
Feb. 11	Heart and EKG	DK, etc.	Exercises 30, 31, 33A
Feb. 18	**LAB PRACTICAL EXAM #1 (covers labs 1-3)**		
Feb. 25	Blood Vessels	DK, etc.	Ex. 32; Dissection Ex. #4
Mar. 3	Blood Vessels part 2	DK, etc.	Dissection Ex. #4
Mar. 10	*Spring Break!*		*No lab!*
Mar. 17	Respiratory System	DK, etc.	Ex. 36 & 37A Dissection Ex. # 6
Mar. 24	Review for lab practical Brief lecture/case study	DK, etc.	
Mar. 30	**LAB PRACTICAL EXAM #2 (covers labs 4-7)**		
April 7	Digestive System	DK, etc.	Ex. 38, 39A Dissection Ex. # 7
Apr. 14	Urinary System	DK, etc.	Ex. 40, 41A
Apr. 21	Reproduction and Development	DK, etc.	Ex. 42, 43, 44 Dissection Ex. # 9
Apr. 28	**LAB PRACTICAL EXAM #3 (covers labs 7-9)**		

DK = Dissection Kit Required, **Etc.** = reminder to bring other materials

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

Appropriate dress is required. Cell phones and cameras are not permitted in lab.

Lab meets from 2:00 – 5:00PM in Pierce Room 119

I expect you to have read ALL appropriate lab exercises and associated text before coming to lab. This is critical for us to proceed through lab properly and is part of your participation grade.