

8BIOL 2402: Human Anatomy and Physiology II

Clarendon College & Childress HS

Division of Science and Health

Course Syllabus

Spring 2012 Lecture: MTF

Rm. 112 @ CHS

Lab: WTh

LAB Rm. 112 @ CHS

4 Semester Credit Hours

Instructor: Mrs. Jody Piper

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Office Hours: M-F 7:45-8:00 a.m. & 3:15-4:00 p.m.

Required Texts: *Human Anatomy & Physiology* 8th Edition by Elaine N. Marieb and *Human Anatomy & Physiology Laboratory Manual* Cat Version 8th Edition by Elaine N. Marieb (this text will be used during the labs).

Class lectures will be based on the book chapters, but not all of the material in the text will be covered in class. **You are, nevertheless, responsible for reading the text.** Further, supplemental material may be presented that is not in the book, and thus it is essential that you attend class regularly.

Supplies: Textbook, Lab manual, **3 ring binder** (at least 1½ " for your lecture notebook - see sections below), **map pencils**, spiral notebook (optional but preferable)

Notebook sections:

- 1) LECTURE NOTES/HANDOUTS**
- 2) DAILY WORK/HOMEWORK**
- 3) QUIZZES**
- 4) LABS/PRACTICALS**
- 5) EXAMS/FINAL**

**We will use your MacBooks for research, current events, referencing and some note taking, but you will still have papers that you need to keep up with for reference.

Course Description: This course is an introduction to basic biological principles applied to the human. It encompasses detailed studies of the human body plan, cells, and tissues of the cardiovascular, lymphatic/immune, respiratory, digestive, urinary and reproductive systems.

Statement of Purpose: Human Anatomy and Physiology I partially satisfies the requirements for the Associates Degree at Clarendon College and is designed for transfer to a senior college.

Exemplary Course Objectives: Successful completion of Human A&P I should enable the student to...

- Understand and apply methods and appropriate technology to the study of natural sciences.
- Recognize scientific and quantitative methods and the differences between these approaches and other methods of inquiry and to communicate findings, analyses, and interpretation both orally and in writing.
- Identify and recognize the differences among competing scientific theories.
- Demonstrate knowledge of the major issues and problems facing modern science, including issues that touch upon ethics, values, and public policies.
- Demonstrate knowledge of the interdependence of science and technology and their influence on, and contribution to, modern culture.

Student Learning Outcomes: Upon successful completion of Human A&P II, the student should be able to...

- Prepare and examine a preserved dissected cat to identify body organs and tissues.
- Conduct experiments with the physiology of the human respiratory system utilizing appropriate lab equipment.
- Conduct experiments with the physiology of the human cardiovascular system utilizing appropriate lab equipment.
- Evaluate benefits and consequences of extended human life spans due to the contributions of science and technology.
- Identify the anatomical structures of the cardiovascular, lymphatic and immune, respiratory, digestive, urinary, and reproductive systems.
- Discuss the physiology of the cardiovascular, lymphatic and immune, respiratory, digestive, urinary and reproductive systems.

Methods of Instruction: This course will utilize lecture/discussion, computer programs, audio-visual materials, and individualized lab instruction.

Academic Integrity and Dishonest Behavior.

College Policy (from Student Handbook):

Clarendon College is committed to a philosophy of honesty and academic integrity. It is the responsibility of all members of the Clarendon College community to maintain academic integrity at Clarendon College by refusing to participate in or tolerate academic dishonesty. **Any act of academic dishonesty will be regarded by the faculty and administration as a serious offense.** Academic dishonesty violations include, but are not limited to: (1) obtaining an examination, classroom activity, or laboratory exercise by stealing or collusion; (2) discovering the content of an examination, classroom activity, laboratory exercise, or homework assignment before it is given; (3) observing the work of another during an examination or providing answers to another during the course of an examination; (4) using an unauthorized source of information during an examination, classroom activity, laboratory exercise, or homework assignment; (5) entering an office, classroom, laboratory, or building to obtain unfair advantage; (6) taking an examination for another person; (7) completing a classroom activity, laboratory exercise, homework assignment, or research paper for another person; (8) altering grade records; (9) using any unauthorized form of an electronic communication device during an examination, classroom activity, or laboratory exercise; and/or, (10) plagiarism. (Plagiarism is defined as the using, stating, offering, or reporting as one's own, an idea, expression, or production of another person's work without proper credit. This includes, but is not limited to, turning in a paper purchased or acquired from any source, written by someone other than the student claiming credit, or stolen from another student.) Students are responsible for reporting known acts of academic dishonesty to a faculty member, the counselor or principal. **Any student with knowledge of a violation who fails to report it shall him/herself be in violation and shall be considered to have committed an act of academic dishonesty.** Additionally, any student who reports him/herself in violation of this code before it is likely that another might consider this possibility will be understood as repentant and acting in good faith. Though the confession will not excuse the student for the violation, the confession will be considered and the violation should not result in suspension from school except in the most extreme cases.

Classroom Conduct

I will show you the respect you deserve as a student. I, in return, expect respectful behavior from you. Because the following actions cause disruption in the classroom and therefore affect the ability of students to learn, I have strict policies concerning them. Disrespectful behavior on your part will result in deductions from your class participation grade and will be subject to disciplinary action. **Disrespectful behavior includes...**

- **Arriving late. Unexcused tardies will be dealt with through the office, but will count against your participation grade.**
- **Leaving the room during class time without permission.** Plan restroom visits before or after class—not during class. If special needs exist, please make prior arrangements.

- **Sleeping in class.**
- **Talking AND/OR texting in class.** Class time is not the time to visit with your fellow classmates. If you do, I will ask you to leave the classroom.
- **Use of profane or inappropriate gestures and/or language.**

Class Policies:

1. Absences: Please take class attendance seriously. You are here to learn all you can learn, to build a body of knowledge to help you in your career and/or to give you satisfaction in the future. Students who are motivated come to class. **You are responsible for the material covered in class (lecture or lab) even if you are absent.**

This is applicable even for extracurricular *excused* absences (see below).

**Unexcused absences will count against your class participation grade as discussed in the grading policies.*

2. Excused absences: Make-ups for tests will be allowed *only* if absences are excused. Excused absences can result from...

1. illness on the part of the student
2. severe illness or death in your *immediate* (not extended) family
3. school sanctioned extracurricular events
4. unfavorable weather conditions

To be excused, your absence must comply with the situations described in the Student Handbook. You should make every effort to inform me *in advance* of the absence...don't just *assume* I will know you are gone with an extracurricular activity and *expect* that you will be allowed special circumstances...please make every effort to make arrangements.

3. Make-up work: Late or unexcused work will not be accepted. Students who have excused absences **MUST** let me know **before** the test is given that we need to schedule a make-up.

4. There will be NO make-up lab practicals. Because these tests involve practical sections, they can't be set up time & again. If you miss one of these tests, you will have to take a significantly harder essay test. The take home message is: **PLAN TO ATTEND ON THESE DAYS!**

5. Scholastic Honesty: **I adhere to a strict policy regarding academic honesty. Anyone who is dishonest in any way will receive a zero on that assignment or exam with no opportunity to make up the zero.** That student, if allowed to remain in the course, will not be allowed to receive any extra credit points from the time of the infraction through the remainder of the course. Note that dishonest behavior includes both the act of copying someone else's work as well as allowing someone to copy your work. Both students are equally guilty and will be equally punished.

Grading Policies: You will receive one **letter** grade for BIOL 2402. Your grade will be calculated on a 100 percent scale and will come from five components: class participation & daily work, homework and quizzes, your lecture notebook, lecture exams, and a laboratory grade (see discussion below).

1. Class participation and daily work will count as 5% of your final course grade.

- a. This grade comes from your participation in class discussions and exercises assigned in class.

****If you choose not to participate in class discussions & classwork, you will receive no credit.**

- b. For every unexcused absence (either to lecture or lab) you will have 5 points deducted from your class participation grade.

2. Homework and Quizzes will count as 15% of your final course grade.

- a. You will be assigned homework as necessary to **help you prepare for class lectures and/or quizzes**. Sometimes the homework will be checked together as a class and a completion grade will be taken; other times, homework will be graded for an individual grade and/or a quiz will be given to assess the completion of homework and mastering the concepts..

b. Please realize the importance of completing homework that is assigned. Assignments are not intended to be *busy work*, but to help you get the most out of your reading or studying and to help you understand the material being covered.

3. Your Lecture Notebook will count as 5% of your final course grade.

- a. Lecture notes (that are to be added to and discussed during class) will be given to you at the beginning of the lecture.
- b. You are responsible for completing these notes and for keeping them in your 3 ring binder.
- c. Your notebook should also include any lecture and/or lab handouts, homework, quizzes, and exams maintained in the appropriate labeled section. Papers will be marked with the appropriate section designation. Your notebook will be graded during your last lab practical. It will be graded on completeness, neatness, and CORRECT SEQUENTIAL ORDER within sections.

4. Lecture exams will count as 50% of your final course grade.

- a. All lecture tests, including the final, will be weighted equally.
- b. Each test covers the material covered since the last test (not comprehensive).
- c. The tests will utilize a variety of question formats (objective, matching, multiple choice, true/false, etc.)
- d. You will take these exams on a **scantron, form no.882-E** (provided) and must be taken in PENCIL.

5. Lab will count as 25% of your final course grade.

- a. Four lab practicals will be given.
- b. Each practical will be weighted equally.
- c. Each test covers the material covered since the last practical (not comprehensive).
- d. The practicals will involve ...
 - i. identification of human anatomy in diagrams, models, and mannequins.
 - ii. They will also involve identification of histology slides.
 - iii. Students will also answer questions on human physiology as discussed the lab.

Grading Scale for the course:

89.5% - 100%	A
79.5% - 89.4%	B
69.5% - 79.4%	C
59.5% - 69.4%	D
59.4% and below	F

Extra Credit: There will be various opportunities to earn extra credit during the semester on EXAMS only. PLEASE NOTE: THESE ARE WRITING (not printing/copying) EXERCISES.

- 1. Critical thinking/discussion, research questions, and/or current events are assigned/discussed for each chapter.
- 2. Your answers to these questions are to be *at least ONE PAGE* neatly written or typed.
- 3. You may use either library resources (the internet and library books) or your textbook to answer these questions.
- 4. I expect you to use correct grammar and complete sentences to answer these questions.
- 5. **You must cite your source** (web address or book and page number) at the end of your paper or **NO credit will be given (yes...I DO CHECK SOURCES)!!...see ACADEMIC DISHONESTY...section (10).**
- 6. Each question answered will add 2 to 5 points (depending on neatness, grammar, length and difficulty) to your next lecture exam.

7. These questions are due immediately before you take your lecture exam.
8. You are expected to do your own work. It is a very rare occasion when more than one student comes up with exactly the same sources and answers. Whether you copy someone else's work, or allow them to copy yours, you are both equally guilty. Both of you will receive no credit for your work. Neither of you will be allowed to receive any extra credit points from the time of the infraction through the remainder of the course.
9. No credit will be given for answers that are simply printed/copied and highlighted.

****Current Events or Homeostatic Imbalance projects (such as podcasts) will be assigned every six weeks and will count as two homework grades.**

****Research Project:** You may do a term project in this course. You must choose a topic of interest and submit a proposed subject for approval to me.

- If you choose to do a term paper, the paper will be 7-10 pages, excluding the reference page. You must have one-inch margins in 12 point Times New Roman font (or a comparable font). The paper **MUST** be in MLA format; if you are unfamiliar with MLA format see me.
- You may also choose to do a computer project such as a video (like a PSA) or a slide show/presentation. As we learn to use our laptops, you may find some other project you would like to do, and as long as you approve it with me, that will be fine.
- The project will have a minimum of 4 sources. At least 3 of these sources must be scholarly sources. That means they must come from books or journals. Online journals are acceptable sources.
- Other, nonscholarly, sources would include magazines (such as Discover), newspapers, video programs from NOVA or The Health Channel, etc. You may also use internet sources, but do so with caution. A website hosted by the American Society for Audiology would be perfectly acceptable whereas one hosted by your Aunt Tilly on "why going outside with your hair still wet causes hearing loss" would not be acceptable.

****Your project must be handed in by the end of the class on Wednesday, May 2nd. No late projects will be accepted.**

Human A&P II

Course Outline: As situations in the classroom and laboratory arise, modifications may have to be made, but we will stick as close to this schedule as possible.

Week of	Lecture Topics	Lab Activities
Jan. 16	Syllabus & Introduction Ch. 17: Blood	EX 29: Histology of Blood Blood Typing LAB *Begin Heart Diagram
Jan. 23	Finish Ch. 17 Ch. 18: Cardiovascular System – Heart	EX 30 & Heart Diagram EX. 33A: Heart Rate & Blood Pressure
Jan. 30	Ch. 18: Cardiovascular System – Heart	Finish Labs & Review
Feb. 6	Ch. 19: Cardiovascular System – Blood Vessels	LAB PRACTICAL #1 <i>Cat Dissection</i> EX 1: Skinning & Muscle Identification
Feb. 13	EXAM I – Cardiovascular System Ch. 20: Lymphatic System	EX 1: Skinning & Muscle Identification
Feb. 20	Ch. 21: Immune System	EX 2, 3 & 4: <i>Cat Dissection</i> Spinal Nerves, Endocrine Organs & Blood Vessels
Feb. 27	Ch. 21: Immune System EXAM II	EX 6, 7, 8 & 9: <i>Cat Dissection</i> Respiratory, Digestive, Urinary & Reproductive Systems
Mar. 5	Ch. 22: Respiratory System	<i>Cat Dissection (FINISH & REVIEW)</i> CAT PRACTICAL (#2) ...2 days
Mar. 12	SPRING BREAK!!	
Mar. 19	Ch. 22: Respiratory System (finish)	EX 36: Anatomy of the Respiratory System EX 37A: Respiratory Physiology
Mar. 26	Ch. 23: Digestive System	EX 38: Anatomy of the Digestive System
Apr. 2	Ch. 23: Digestive System (finish) EXAM III	EX 38: Anatomy of the Digestive System
Apr. 9	Ch. 25: The Urinary System	LAB PRACTICAL #3 EX 40: Anatomy of the Urinary System
Apr. 16	Ch. 25: The Urinary System	*Simulated Urinalysis Lab
Apr. 23	Ch. 27: The Reproductive Systems	EX 42: Anatomy of the Reproductive Systems
Apr. 30	Ch. 27: The Reproductive Systems	LAB PRACTICAL # 4 **Bring your lecture notebook for grading!**
May 7	Review & FINAL EXAMS	