

**BIOL 2301: Human Anatomy and Physiology I**  
**BIOL 2101 (Lab): Human Anatomy and Physiology I Lab**  
**Clarendon College - Division of Science and Health**  
**Course Syllabus Summer I – 2018**  
**Lecture: MW 4:00 – 7:45p.m. Rm. 112 @ CHS (3 credit Hours)**  
**Lab: MW 8:00-9:20p.m. LAB Rm. 112 @ CHS**

Instructor: Mrs. Jody Piper

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Office Hours: 3:00-4:00 p.m.

**Required Texts:** *Human Anatomy & Physiology with MasteringA&P 10th Edition* by Elaine N. Marieb and Katja Hoehn and *Human Anatomy & Physiology Laboratory Manual with MasteringA&P, Cat Version, Update 10th Edition* by Elaine N. Marieb and Susan Mitchell.

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 the class regularly.

Supplies: Textbook, Lab manual, *3 ring binder* (at least 1½ " for your lecture notebook - see sections below), *map pencils (to be used in lab periodically)*

Notebook sections:

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

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

**Core Objective Statement:** In accordance with recommendations from the Texas Higher Education Coordinating Board, all life and physical science courses at Clarendon College will address the following core objectives:

- **Critical Thinking Skills** – including creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.
- **Communication Skills** – including effective written, oral, and visual communication.
- **Empirical and Quantitative Skills** – including application of scientific and mathematical concepts.
- **Teamwork** – including the ability to consider different points of view and to work effectively with others to support a shared purpose or goal.

### **Student Learning Outcomes for Lecture:**

Upon successful completion of Human Anatomy & Physiology I, the student should demonstrate these core objectives by being able to...

#### *Critical Thinking Skills:*

- Identify the chemical structures, synthesis, and regulation of nucleic acids and proteins.
- Identify the substrates, products and important chemical pathways in physiological processes.

#### *Communication Skills:*

- Describe the characteristics of life and the basic properties of substances needed for life.
- Describe the reasoning processes applied to scientific investigations and thinking.
- Describe human physiology and homeostasis as maintained by organ systems.

#### *Empirical and Quantitative Skills*

- Describe the structure of cell membranes and the movement of molecules across a membrane.

**Student Learning Outcomes for Lab:** Upon successful completion of Human Anatomy & Physiology I, the student should demonstrate these core objectives by being able to...

#### *Critical Thinking Skills*

- Identify the chemical structures, synthesis, and regulation of nucleic acids and proteins
- Describe the characteristics of life and the basic properties of substances needed for life.
- Describe human physiology and homeostasis as maintained by organ systems.

#### *Communication Skills*

- Describe the reasoning processes applied to scientific investigations and thinking.

#### *Empirical and Quantitative Skills:*

- Describe the structure of cell membranes and the movement of molecules across a membrane.
- Be able to apply scientific reasoning to investigate questions, and utilize scientific tools such as microscopes and laboratory equipment to collect and analyze data.

#### *Teamwork*

- Communicate effectively the results of investigations.
- Use critical thinking and scientific problem-solving to make informed decisions in the laboratory

Academic Integrity and Dishonest Behavior.

*Academic Integrity:* An Excerpt from Clarendon College's Student Handbook

Failure to comply with lawful direction of a classroom instructor is a disruption for all students enrolled in the class. Cheating 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) using an unauthorized source of information during an examination, classroom activity, laboratory exercise, or homework assignment; (4) entering an office or building to obtain unfair advantage; (5) taking an examination for another person; (6) completing a classroom activity, laboratory exercise, homework assignment, or research paper for another person; (7) altering grade records; (8) using any unauthorized form of electronic communication device during an examination, classroom activity, or laboratory exercise; (9) Plagiarism. Plagiarism is the using, stating, offering, or reporting as one's own, an idea, expression, or production of another person without proper credit. Disciplinary actions for cheating in a course are at the discretion of the individual instructor. The instructor of that course will file a report with the Dean of Instruction when a student is caught cheating in the course, whether it be a workforce or academic course. The report shall include the course, instructor, student's name, and the type of cheating involved. Students who are reported as cheating to the Dean of Instruction more than once shall be disciplined by the Dean. The Dean will notify all involved parties within fourteen days of any action taken.

### **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...

- 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 or using electronic devices in class. Class time is not the time to visit with your fellow classmates. Please respect me and others in class.
- 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 due to extracurricular activities.**

*\*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...

- illness on the part of the student
- severe illness or death in your *immediate* (not extended) family
- school sanctioned extracurricular events
- unfavorable weather conditions (pertains to night class)

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** or make other arrangements with Mrs. Piper.

**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.

**6. Electronic Communication/Entertainment Devices/Laptops:** Below is an excerpt from Clarendon College Policy 1541. ...Cell phones, pagers, and other personal electronic devices must be off and out of sight in classrooms, laboratories, the library, study spaces, and other academic settings and during such events as plays, concerts, lectures, and College ceremonies...These electronic devices may be turned on and set on silent mode only with the expressed consent of the instructor...faculty members may have individual policies related to cell phones, pagers, and other personal electronic devices outlined in their syllabi...(that) may include penalties for violation... The use of cell phones, iPods, other electronic communication or entertainment devices, or laptops is prohibited unless you have made prior arrangements with the instructor. An offense will result in the device being taken up.

**8. Accommodations:** Clarendon College provides reasonable accommodations for persons with temporary or permanent disabilities. Should you require special accommodations, it is your responsibility to notify the Office of Student Services (806-874-3571 or 800-687-9737). We will then work with you to make whatever accommodations we need to make.

**7. Withdrawal:** If you decide that you are unable to complete this course or that it will be impossible to complete the course with a passing grade, you may drop the course and receive a "W" on your transcript instead. Withdrawal from a course is a formal procedure that you must initiate. If you do not go through the formal withdrawal procedure, you will receive a grade of "F" on your transcript. A student is permitted to drop a course if he/she obtains an official drop slip from the office and has the instructor sign the slip before the 12th class week. Remember, a student is only allowed to drop the same class twice before he/she will be charged up to triple the tuition amount for taking the class a third time or more. Furthermore, beginning with the Fall 2007 semester, students in Texas may only drop a total of 6 courses throughout their entire undergraduate career. After the 6, he/she will no longer be able to withdraw from any classes. If you think you need to drop this course, please talk with me about it first. It is possible that there is something you can do to still pass the course. Don't hurt your chances for a passing grade in the course by not attending labs or taking exams before we have discussed your situation. The last day to withdraw from this course with a "W" is **JUNE 24, 2019**

**8. Accommodations/American with Disabilities Act Statement:**

Clarendon College provides reasonable accommodations for persons with temporary or permanent disabilities. Should you require special accommodations, notify the Office of Student Services (806-874-3571 or 800-687-9737). We will work with you to make whatever accommodations we need to make.

**Student Rights and Responsibilities** are listed on the College website

<http://www.clarendoncollege.edu/Resources/Student%20Services/StudentRightsResponsibilities.pdf>.

**Grading Policies: You will receive one letter grade for BIOL 2301.** Your grade will be calculated on a 100 percent scale and will come from five components: class participation & daily work, homework and daily quizzes, your lecture notebook, and lecture exams.

**1. Class participation and daily work will count as 10%** 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 (Reviews) will count as 10%** 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.

c. Current Event Report Forms will be due twice a six weeks. \*\*NA to summer/night courses

**3. QUIZZES will count as 15%** of your final course grade.

a. Any day that we take notes in class, you should study for a quiz the next day on material covered. Information covered on quizzes will also appear on exams.

**4. 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.

**5. Lecture exams will count as 60%** 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.)

**You will also receive one letter grade for BIOL 2101 (A&P Lab).** Your grade will be calculated on a 100 percent scale and will come from three components: class participation & daily work, homework, and lab practical exams.

**1. LAB participation and daily work will count as 15%** 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 lab discussions & classwork, you will receive no credit.

b. For every unexcused absence you will have 10 points deducted from this grade.

**2. Homework (Reviews) or LAB Quizzes will count as 25% of your final course grade.**

a. You will be assigned homework as necessary to *help you prepare for lab practicals*.

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. Lab Practical will count as 60% 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

**Human A&P I**

**Course Outline:** The essence of life is change and so too this syllabus schedule below. As situations in the classroom and laboratory arise, modifications may have to be made, particularly regarding the course calendar. All attempts will be made to keep these changes to a minimum.

DATE	LECTURE TOPICS	LAB ACTIVITIES
Mon. June 3	Syllabus & Introduction Ch. 3: Cells-The Living Units	Exercise 2: Organ Systems Overview Exercise 3: The Microscope
Wed. June 5	<b>*QUIZ Cells</b> Ch. 4: Tissue-The Living Fabric	Exercise 4: The Cell – Anatomy and Division
Mon. June 10	<b>EXAM I - Cells &amp; Tissues</b> Ch. 5: The Integumentary System	Exercise 6: Classification of Tissues & Integumentary System (skin model)
Wed. June 12	<b>*QUIZ Integumentary</b> Ch. 6: Bones and Skeletal Tissue	<b>LAB PRACTICAL #1</b> Exercise 9: Overview of the Skeleton Exercise 10: The Axial Skeleton
Mon. June 17	<b>EXAM II - Integumentary Skeletal</b> Ch. 8: Joints Ch. 9: Muscles and Muscle Tissue	Exercise 10: The Axial Skeleton (cont.) Exercise 11: The Appendicular Skeleton
Wed. June 19	<b>*QUIZ Joints</b> Ch. 9: Muscles and Muscle Tissue (cont.)	<b>LAB PRACTICAL #2</b> Exercise 14: Microscopic Anatomy, Classification of Skeletal Muscle Exercise 15: Gross Anatomy of the Muscular System (head and torso)
Mon. June 24	<b>EXAM III - Joints &amp; Muscles</b> Ch. 11: Fundamentals of the Nervous System & Nervous Tissue Ch. 12: The Central Nervous System	Exercise 15: Gross Anatomy of the Muscular System (arms and legs) <b>**Last Day to withdraw with a "W" on transcript!!</b>
Wed. June 26	<b>*QUIZ Fund of NS</b> Ch. 12: The Central Nervous System (continued)	<b>LAB PRACTICAL # 3</b> Exercise 17: Histology of Nervous Tissue Exercise 19: Gross Anatomy of the Brain
Mon. July 1	<b>EXAM IV</b> Ch. 13: The Peripheral Nervous System (PNS) & Reflex Activity Ch 14: The Autonomic Nervous System	Exercise 19: Gross Anatomy of the Brain & Cranial Nerves (cont.) Exercise 21: Spinal Cord and Spinal Nerves
Wed. July 3	<b>*QUIZ - PNS &amp; ANS</b> Ch.16: The Endocrine System (table of organs & hormones) *Review	<b>FINAL PRACTICAL #4</b> <b>**Bring your lecture notebook for grading!**</b>
Mon. July 8	<b>FINAL EXAM</b>	

