

BIOL 2301: Human Anatomy and Physiology I
Lecture: 3 Semester Credit Hours
BIOL 2301.101 Monday, Tuesday, Wednesday 8:00-8:46a.m.
BIOL 2101: Human Anatomy and Physiology I Lab
Lab: 1 Semester Credit Hour
BIOL 2101L.101 Thursday, Friday 7:55-8:43a.m.

CLARENDON COLLEGE
Division of Science and Health
Course Syllabus - Fall 2023

Instructor: Mrs. Jody Piper

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Mailing Address: Childress High School, 800 Ave. J NW, Childress, TX 79201

Office Hours: M-F 7:45-7:55 a.m. & 3:35-4:00 p.m.

Google Classroom Code: 4ye2els

Google Meet Code: <http://meet.google.com/lookup/hb4jgj5mlq>

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 integumentary, skeletal, muscular, nervous, and endocrine 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.

Required Texts: *Anatomy & Physiology* textbook authored and published by OpenStax College (License: CC-BY 4.0). You are responsible for reading the text. You can download the textbook material at <https://openstax.org/details/books/anatomy-and-physiology>. This course also includes additional content created by BNED and other third-party sources under CC-BY 4.0 Attribution License. You do not have to print the textbook as it is available as an e-text within the Barnes and Noble Loud Cloud platform. ISBN-10: 1938168135

BIOL 2102: Required Text: *Human Anatomy & Physiology Laboratory Manual with MasteringA&P, Cat Version, Update 13 th Edition* by Elaine N. Marieb and Lori A. Smith. ISBN-10: 0134632338

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:

- **3 ring binder** (at least 1 - 1½ " for your lecture notebook - see sections below). I have notebooks available if you need...just ask!!
- **map pencils (to be used in lab periodically)**
- **sticky notes – regular size**
- **ONE of the following: Cleaning Wipes OR Dish Soap OR Hand Soap**

Notebook section dividers:

- 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:

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

Critical Thinking Skills

Identify the chemical structures, synthesis, and regulation of nucleic acids and proteins.

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 use:

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...

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 (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.

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>.

Dropping a Course:

A student may drop any other course with a grade of "W" any time after the census date for the semester and on or before the end of the 12th week of a long semester, or on or before the last day to drop a class of a term as designated in the college calendar. The request for permission to drop a course is initiated by the student by procuring a drop form from the Office of Student Services. (Refer to other policies concerning this issue in the current college catalog online.)

****Last day to drop with a "W" on transcript in Fall 2022 is FRIDAY, November 3rd.**

Withdrawal from College:

When a student finds it necessary to withdraw from school before the end of the semester, he or she should obtain a withdrawal form from the Office of Student Services. Students may also withdraw from the college by sending a written request for such action to the Registrar's Office. The request must include the student's signature, the student's current address, social security number and course information details. Students who withdraw after the census date for the semester and on or before the end of the 12th week of a long semester, or on or before the last day to drop a class of a term as designated in the college calendar will be assigned a grade of "W." ****Last day to drop with a "W" on transcript in Fall 2022 is FRIDAY, November 3rd.**

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.

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

- a. **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.
- c. **Discussion Posts will be part of your grade. These discussion questions will be posted in the classroom or in the Google Classroom.**

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. **Article Review Forms** will be due twice a six weeks. This homework is required and may be submitted through the Google Classroom.

3. QUIZZES (daily) 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. Most of these quizzes will be taken in your Google Classroom.
- b. I will drop the lowest quiz grade each six weeks.

4. ARTICLE REVIEWS/Responses will count as 5% of your final course grade.

- a. You will be assigned an Article Review each six weeks.
- b. You are responsible for completing these reviews according to the guidelines posted.
- c. You will also respond, using the guidelines posted, to at least TWO other Article Reviews posted from other people in the classroom.
- d. These Article Reviews are to come from scientific journals or approved health/medical sources and you **MUST** cite your source for full credit. Plagiarism will not be tolerated and papers that utilize plagiarism will receive a ZERO for this portion of your grade.

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.)
- d. You may be asked to take some of these exams in your Google Classroom.

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 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 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.

c. Lab Report Forms will be submitted weekly for a homework grade. These forms may be submitted through Google Classroom.

3. Lab Practical will count as 75% 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 in 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

For the high school grade the lecture and lab will be combined:

LECTURE EXAMS: 50%

LAB PRACTICALS: 20%

PARTICIPATION (DAILY WORK): 10%

HOMEWORK/DAILY QUIZZES: 15%

ARTICLE REVIEWS: 5%

Clarendon College/Childress High School
BIOL 2301: Human Anatomy & Physiology I
Class Contract

I, _____, have read the
syllabus for BIOL 2301: Human Anatomy & Physiology I taught during the Fall 2022
semester by Jody Piper and agree to abide by the policies written in it. I understand
the policies of class attendance, lab attendance, dropping the course, academic honesty, and
general class behavior and understand the consequences of failing to comply with these
policies.

Student Signature Date: _____

HUMAN A&P 1 and LAB Schedule (*WEEKLY schedule posted in Google Classroom*):

*Quizzes aren't guaranteed, but be prepared for a quiz from material covered at DAILY lecture.

Week of:	Lecture Topics	Student Learning Outcome	Lab Activities	Student Learning Outcome
Aug 17th/ Aug. 21st	Syllabus & Introduction Ch 1: The Human Body: An Orientation	<i>Describe the characteristics of life and the basic properties of substances needed for life.</i>	Exercise 1: The Language of Anatomy Exercise 2: Organ Systems Overview	<i>Describe human physiology and homeostasis as maintained by organ systems.</i>
Aug 28th	Ch 3: Cells: The Living Units <i>*DAILY QUIZZES</i> *Exam I Review... Handout/posted	<i>Describe the structure of cell membranes and the movement of molecules across a membrane.</i>	Exercise 3: The Microscope Exercise 4: The Cell – Anatomy and Division	<i>Be able to apply scientific reasoning to investigate questions, and utilize scientific tools such as microscopes and laboratory equipment to collect and analyze data.</i>
Sept. 4th	LABOR DAY HOLIDAY on Monday Ch 3: Cells: The Living Units (continued) <i>*DAILY QUIZZES</i>		Exercise 6: Classification of Tissues	<i>Describe the reasoning processes applied to scientific investigations and thinking.</i>
Sept 11th	Ch 4: Tissue: The Living Fabric <i>*DAILY QUIZZES</i>	<i>Describe human physiology and homeostasis maintained by organ systems.</i>	Exercise 6: Classification of Tissues, continued Exercise 7: The Integumentary System (skin model/fingerprinting) LAB PRACTICAL # 1	
Sept 18th	Exam I (Orientation, Cells, Tissues) Ch 5: The Integumentary System	<i>Describe human physiology and homeostasis maintained</i>	Exercise 9: Overview of the Skeleton	

	<i>*DAILY QUIZZES</i>	<i>by organ systems.</i>		
Sept. 25th	Ch 5: The Integumentary System (cont) Ch. 6 Bones & Skeletal Tissue <i>*DAILY QUIZZES</i> Exam II Review - Handout/posted		Exercise 10: The Axial Skeleton	
Oct. 2nd	Finish Ch. 6 Bones & Skeletal Tissue		Exercise 11: The Appendicular Skeleton Exercise ?: Joint Classification/Models	
Oct 9th	Exam II (Skin & Skeletal Tissue) Ch 9: Joints <i>*DAILY QUIZZES</i> Exam III Review Handout/posted		*Review LAB PRACTICAL # 2	
Oct 16th	*Muscles and Muscle Tissue: <i>*DAILY QUIZZES</i>	<i>Describe the reasoning processes applied to scientific investigation & thinking.</i>	Exercise 14: Microscopic Anatomy, Organization and Classification of Skeletal Muscle	

Oct. 23rd	*Muscles and Muscle Tissue (cont.): <i>*DAILY QUIZZES</i> Exam III (Joints & Muscles)		Exercise 15: Gross Anatomy of the Muscular System	
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Oct. 30th	Ch 12: Nervous System & Tissue <i>*DAILY QUIZZES</i> Ch 13: The Central Nervous System (CNS) <i>*Exam IV Review Handout/posted</i>		*Muscle Review LAB PRACTICAL #3	
Nov 6th	Ch. 13: CNS cont. <i>*DAILY QUIZZES</i>	Friday, Nov. 4th – last day to drop with "W" on transcript	Exercise 17: Histology of Nervous Tissue Exercise 19: Gross Anatomy of the Brain & Cranial Nerves	
Nov 13th	Ch. 13: CNS cont. <i>*DAILY QUIZZES</i> Exam IV (Fundamental NS & CNS)		Exercise 19: Gross Anatomy of the Brain & Cranial Nerves (cont.)	
Nov 20th	THANKSGIVING Holiday		HOLIDAY!	
Nov 27th	Ch 14: The Somatic (Peripheral) Nervous System (PNS) Ch 15: The Autonomic Nervous System (ANS) <i>*Final Exam Review</i>		Exercise 21: Spinal Cord and Spinal Nerves (if time allows) *Review of Nervous System LAB PRACTICAL #4	
Dec. 4th	FINAL EXAM Dec. 7th (PNS & ANS) Ch. 17: the Endocrine System			
Dec. 11th	Ch. 17: the Endocrine System Final Article Review/Response			

