

# BIOL 2102: Human Anatomy and Physiology II Lab

Monday 4:00 pm – 6:30 pm Childress Red River room

Lab: 1 Semester Credit Hours

CLARENDON COLLEGE  
Division of Science and Health  
Course Syllabus  
Fall 2025

**Instructor:** Mrs. Rachel Randall

**E-mail:** [rachel.randall@clarendoncollege.edu](mailto:rachel.randall@clarendoncollege.edu)

Virtual Office Hours: Wednesday and Friday 8:00-12:00 Contact me through email or Open LMS to set up zoom meetings

Childress Campus Office Hours: Monday 1:30-4:00pm Clarendon Campus: Tuesday & Thursday 8:00-9:30

**The “Messages” feature within the online platform is the main method you should use to contact me.** I will make every effort to check the course website every weekday and respond to your message requests within 24 hours on business days.

**Instructor’s Plan for Regular and Substantive Interaction:** The student can expect timely and frequent interaction with the instructor throughout the course. Each assignment will have a due date on the calendar, syllabus link, or within the module. The instructor will communicate with the student using email, announcements, discussions, assignments, office hours, and/or virtual Zoom meetings. The student can expect instructor-initiated posts, replies, and/ or follow-up questions on discussion boards, individualized feedback on assignments, live Zoom discussions or meetings, and/or announcements focused on the course content. The instructor will respond to learner inquiries or requests for assistance within one business day and provide feedback on assignments within 7 days of the due date.

**Course Description:** This course is a continuation of BIOL 2401: Study of the structure and function of human anatomy. BIOL 2402 will include the study of endocrine, cardiovascular, lymphatic, immune, respiratory, digestive, urinary, and reproductive systems.

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

**Required Texts:** Your book is available in web view and PDF for free. Anatomy and Physiology 2 Lab Manual 1st ed from OER Commons. The free OER Lab Manual is available online at <https://oercommons.org/courseware/lesson/96044/student/432942> From this page, downloadable DOCX and PDF versions are both available.

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

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

## **Critical Thinking Skills**

- Identify the substrates, products, and important chemical pathways in respiration.
- 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.

### **BIOL 2102 Lab grading:**

1. **Lab assignments will count as 60%** of your final lab grade. These include activities from the OER Lab Manual (completed as fill-in documents), dissections, physiology activities, and assignments linked in Open LMS that use free resources such as virtual lab simulations, projects, and other activities. No lab grades will be dropped.
2. **Lab practicals will count as 40%** of your final lab grade. These exams are equally weighted and non-comprehensive.

**Grading Scale for the course:** 90-100 = A    80-89 = B    70-79 = C    60- 69 = D    59 or Below = F

### **Your official final course grade will appear in your Student Portal.**

Grades earned for each graded activity will be available in Open LMS. However, in your Open LMS gradebook, assume that any activity you did not complete is a zero, even if a hyphen appears beside the activity in the gradebook. The current course average shown in the Open LMS gradebook will not be correct until I have replaced the hyphens with zeroes.

### **Grievance/Appeals**

If you have a dispute concerning your grade or policies in this class, it is the student's responsibility to contact the instructor to discuss the matter. Should things remain unresolved, please follow the procedures described in the Clarendon College Student Handbook or College Policy Manual.

### **STUDENT ACADEMIC INTEGRITY AND CLASSROOM ETHICS: Excerpt from Clarendon College's 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 an 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 activity; 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 program coordinator, the vice president, and/or dean. 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.

While academic integrity and honesty are the responsibility of the individual student, each individual faculty member, teaching assistant, and/or laboratory instructor is responsible for classroom management and for maintaining ethical behavior within the classroom and/or laboratory. Faculty who discover or suspect a violation should discuss the matter with the suspected violator(s) and attempt to resolve the case at that point. In cases of convincing evidence, the faculty member should take appropriate action. The faculty member and student should complete a Counseling Sheet regarding the violation. (The Counseling Sheet should contain at a minimum the date and time of the violation, the course, the

instructor's name, the student's name, an explanation of the infraction or facts of the case, and the resolution to the incident.) This form should be signed by the student, faculty member, program coordinator, and the Vice President of Academic Affairs. The Vice President of Academic Affairs will maintain a file on all violations. If a faculty member prefers to report the case directly to Vice President of Academic Affairs, it remains his/her prerogative to do so. Additionally, if the faculty member and the accused student cannot reach a resolution or if the faculty member believes that suspension from school is the only fair sanction, the case should immediately be reported, by the faculty member, in writing, to the Vice President of Academic Affairs. If the Vice President of Academic Affairs observes any trends in student behavior which involve more than one violation or act of academic dishonesty, the Vice President of Academic Affairs is responsible for notifying all faculty members involved, for contacting the student(s) involved, and after consultation with the faculty member(s) involved for taking the appropriate action. The Vice President of Academic Affairs is responsible for the timely notification (normally within two weeks) to all parties of an action taken.

Students wishing to appeal a disciplinary decision involving academic integrity or acts of academic dishonesty may do so through the Student Appeals and Grievance Procedure.

### **Class Policies:**

1. **Make-up work:** Late will not be accepted unless the missed assignment is due to an emergency (with documentation). Allowing a student to make up late work is solely at the discretion of the instructor. A 10% deduction per day will be applied unless prior arrangements have been approved.
2. **Final Exam:** The schedule of final exams times is published at the beginning of the semester. You can find the schedule for final exams at: <https://www.clarendoncollege.edu/insideCC>. Do not make plans to leave school before your scheduled final exam. Faculty members cannot on their own authorize a student to take a final exam early. In exceptional circumstances if a student needs to take a final exam early, he/she may request early final exams by filling out the form at: <https://www.clarendoncollege.edu/Resources/Admin/Request%20for%20Early%20Final%20Exams.pdf>.
3. **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 and may be dropped from the course with a grade of F.
4. **Grievance Policy:** If you have a dispute concerning your grade or policies in this class, it is the student's responsibility to contact the instructor to discuss the matter. Should things remain unresolved, please follow the procedures described in the Clarendon College Student Handbook or College Policy Manual.
5. **Accommodations:** REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT: In accordance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973, any student who feels that he or she may need any special assistance or accommodation because of an impairment or disabling condition should contact the Associate Dean of Enrollment Services at 806-874-4837 / [janean.reish@clarendoncollege.edu](mailto:janean.reish@clarendoncollege.edu) or visit the Clarendon campus at Clarendon College. It is the policy of Clarendon College to provide reasonable accommodation as required to afford equal educational opportunity. It is the student's responsibility to contact the Associate Dean of Enrollment Services.
6. **Nondiscrimination Policy:** Clarendon College, in accordance with applicable federal and state law, prohibits discrimination, including harassment, on the basis of race, color, national or ethnic origin, religion, sex, disability, age, sexual orientation, or veteran status. It is the policy of Clarendon College not to discriminate based on gender, age, disability, race, color, religion, marital status, veteran's status, national or ethnic origin, or sexual orientation. Harassment of a student in class, i.e., a pattern of behavior directed against a particular student with the intent of humiliating or intimidating that student will not be tolerated. The mere expression of one's ideas is not harassment and is fully protected by academic freedom, but personal harassment of individual students is not permitted.
7. **Withdrawal:** Students desiring to make schedule changes after their initial registration each semester must do so during the designated "Drop and Add" period as scheduled in the College Catalog. Students will be required to pay tuition and fees applicable to any class(es) added to their schedule.

Official withdrawal from a course is initiated in the Office of the Registrar. However, each student should consult with his/her academic advisor or the Associate Dean of Enrollment before officially withdrawing from a course. A student who stops attending a class without officially dropping it may receive a grade of "F" for that class.

## Human Anatomy & Physiology II Lab: Course Calendar and Outline

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.

| DAY OF   | LAB ACTIVITIES                                                                                                |
|----------|---------------------------------------------------------------------------------------------------------------|
| Aug 25   | OER Lab 1: Endocrine Anatomy<br>Hormone Table & Labeling                                                      |
| Sept 1   | Labor Day - No Lab this Week                                                                                  |
| Sept 8   | Endocrine Lab 2 Physiology Simulation: Diabetes/ Simulating Responses to Variances in Blood Glucose Levels    |
| Sept 15  | OER Lab 3 : Blood typing & Analyzing Differential White Blood Cell Counts                                     |
| Sept 22  | <b>Lab Practical 1- PowerPhysiology</b> - Hematocrit and Hemoglobin Concentration and Blood Typing            |
| Sept 29  | Dissect Heart                                                                                                 |
| Oct 6    | OER Lab 6: Anatomy of Blood vessels                                                                           |
| Oct 13   | PowerPhysiology: Effect of Exercise on Cardiac Output                                                         |
| Oct 20   | PowerPhysiology: Effect of Exercise on Arterial Pressure and Vascular Resistance                              |
| Oct 27   | <b>Lab Practical 2:</b> Finish Lab Report for Effect of Exercise on Arterial Pressure and Vascular Resistance |
| Nov 3    | PowerPhysiology: Respiratory Volumes                                                                          |
| Nov 10   | <b>Lab Practical 3</b> - PowerPhysiology Regulation of Pulmonary Ventilation                                  |
| Nov 17   | PowerPhysiology: Effect of Dietary Fiber on Transit Time and Bile                                             |
| Nov 24   | PowerPhysiology: Influence of Fluid Intake on Urine Formation                                                 |
| Dec 1    | Dissection: Digestive, Urinary, Reproductive                                                                  |
| Dec 9-11 | Final Practical Dec 8th                                                                                       |