BIOL 1307: Biology for Science Majors II
3 Semester Credit Hours
BIOL 1107: Biology for Science Majors II Lab
1 Semester Credit Hour

CLARENDON COLLEGE
Division of Science and Health
Course Syllabus
Spring 2026

Lecture: Monday - Friday 10:45 AM – 11:46 PM

Lab: Monday – Friday 12:50 PM – 12:35 PM

Instructor: Kelli Bird
Office Hours and Location: M-F 9:15 – 10:05 AM, Wheeler High School
Phone: 806-826-5241
Email: kelli.bird@wheelerschools.net
Mailing Address: PO Box 1010, Wheeler, TX, 79096

BIOL 1307 Course Description: This course is a continuation of BIOL 1306. The classification of organisms will be studied, including animals, plants, protists, fungi, and bacteria.

BIOL 1107 Course Description: This lab course is a continuation of BIOL 1106. The diversity of life and the classification of organisms will be studied in this lab course, including animals, plants, protists, fungi, and bacteria. The anatomy and physiology of plants and the evolution of eukaryotic organisms will be discussed.

Statement of Purpose: Biology for Science Majors II partially satisfies the requirements for the Associates Degree at Clarendon College and is designed to transfer to a senior college.

BIOL 1307 Required Texts: *Concepts of Biology* textbook authored and published by OpenStax College (License: CC-BY 4.0). Textbook material can be downloaded at www.openstaxcollege.org. This course also includes additional content created by BNED and other third-party sources under CC-BY 4.0 Attribution License. The textbook does not have to be printed as it is available as an e-text within the Barnes and Noble Loud Cloud platform.

BIOL 1107 Required Texts: Laboratory activities will be provided during class. No textbook is required.

Supplies: Students are required to bring textbook, 3-ring binder for notes, index cards, pencils, colored pencils, and latex/nitrile gloves for dissection.

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

Students Rights and Responsibilities:
http://www.clarendoncollege.edu/Resources/Student%20Services/StudentRightsResponsibilities.pdf

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 Biology for Science Majors II, the student should demonstrate these core objectives by being able to…

Critical Thinking Skills

- Identify the major phyla of life with an emphasis on animals, including the basis for classification, structural and physiological adaptations, evolutionary history, and ecological significance.
- Compare different sexual and asexual life cycles noting their adaptive advantages.

Communication Skills

- Describe phylogenetic relationships and classification schemes.
- Describe basic animal physiology and homeostasis as maintained by organ systems.

Empirical and Quantitative Skills

- Describe modern evolutionary synthesis, natural selection, Mendelian inheritance, micro and macroevolution, and speciation.
- Illustrate the relationship between major geologic change, extinctions, and evolutionary trends.

Student Learning Outcomes for Lab: Upon successful completion of Biology for Science Majors II, the student should demonstrate these core objectives by being able to…

Critical Thinking Skills

- Identify the major phyla of life with an emphasis on animals, including the basis for classification, structural and physiological adaptations, evolutionary history, and ecological significance.
- Describe basic animal physiology and homeostasis as maintained by organ systems.
- Compare different sexual and asexual life cycles noting their adaptive advantages.

Communication Skills

- Distinguish between phylogenetic relationships and classification schemes.
- Illustrate the relationship between major geologic change, extinctions, and evolutionary trends.

Empirical and Quantitative Skills

- Demonstrate knowledge of modern evolutionary synthesis, natural selection, Mendelian inheritance, micro and macroevolution, and speciation.
- 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.

Grading Policies: You will receive one letter grade for BIOL 1307 and one letter grade from BIOL 1107. That grade comes from the components described below.

BIOL 1307 Grading Policies

1. **Class participation and daily activities will count as 20%** of your final course grade.
    a. This grade comes from your participation in class discussions and exercises.
        i. If you choose not to participate in class discussions, you will receive no credit.
    b. For every three unexcused absences (either to lecture or lab) you will have 10 points deducted from your class participation grade.
        i. If you leave during class, you will receive an unexcused absence.
        ii. If you arrive late to class, you will receive an unexcused absence.
        iii. If you are asked to leave class due to disrespectful behavior, you will receive an unexcused absence.
2. **Quizzes will count as 20%** of your final course grade.
    a. Each quiz covers the material covered since the last test (not comprehensive).

b. The tests will utilize a variety of question formats (objective, matching, multiple choice, true/false, etc.)
c. Quizzes must be taken in class in the presence of the instructor.

3. **Lecture exams will count as 60%** of your final course grade.
    a. Students will not be allowed to take exams until they have signed a course contract.
    b. All lecture tests, including the final, will be weighted equally.
    c. Each test covers the material covered since the last test (not comprehensive).
    d. The tests will utilize a variety of question formats (objective, matching, multiple choice, true/false, etc.)
    e. I will drop your lowest lecture test grade, excluding the final which must be counted.

BIOL 1107 Grading Policies:

1. **Lab participation and forum discussions will count as 15%** of your final lab grade.
    a. This grade comes from your participation in lab discussions and exercises.
        i. If you choose not to participate in lab discussions, you will receive no credit.
    b. For every three unexcused absences (either to lecture or lab) you will have 10 points deducted from your class participation grade.
        i. If you leave during class, you will receive an unexcused absence.
        ii. If you arrive late to class, you will receive an unexcused absence.
        iii. If you are asked to leave class due to disrespectful behavior, you will receive an unexcused absence.

2. **Lab reports and daily exercises will count as 45%** of your final grade.
    a. This grade comes from your accurate completion of lab reports and exercise questions.
        i. If you choose not to complete lab reports, you will receive no credit.
    b. All lab reports, exercise questions, and quizzes will be weighted equally.

3. **Lab Practicals and Biology Presentation will count as 40%** of your final grade.
    a. All lab practicals will be weighted equally.
    b. Each practical covers the material covered since the last exam (not comprehensive).
    c. The lab practicals will utilize a variety of question formats (objective, matching, multiple choice, true/false, etc.)
    d. A Project-Based Lab will be assigned to each student during the semester. Projects will be graded on lab design and the communication of the results in a 3-5 minute presentation.

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

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.

Disrespectful behavior includes…

- **Arriving late.**
- **Leaving the room during class time.** Plan restroom visits before or after class —not during class. If special needs exist, please make prior arrangements.
- **Using electronic communication devices.** This includes cell phones, pagers, iPods, etc. These are not allowed during class time. If special needs exist, please make prior arrangements.
- **Sleeping in class.**
- **Talking 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.
- **Using headphones.** If you do, I will ask you to leave the classroom.
- **I do NOT allow abusive, obscene, or offensive clothing, jokes, or behavior.**

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.*** *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. college sanctioned extracurricular events
    4. unfavorable weather conditions that prevent students from reaching the college

    If you wish for your absence to be excused, you should telephone or e-mail me *in advance* of the absence (leave a message if necessary). Even in emergencies, it usually is possible for you to get word to me about an absence. When you return, you must furnish proof of the reason for your absence if you wish for it to be excused.

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. In most cases, the tests must be taken PRIOR to the absence in order to receive full credit. **If you take the test after it has been given to the class, you will receive a 10% penalty per school day that passes

until you take the make-up.** To avoid the penalty, MAKE SURE YOU TAKE A MAKE- UP TEST BEFORE YOU LEAVE.

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 an essay test. The take home message is: PLAN TO ATTEND THESE DAYS!

5. **Final Exams:** Students must take a final for each of their academic courses. The schedule of final exam times is published at the beginning of the semester. Do not make plans to leave school before your scheduled final exam. I will not proctor any early finals except in extreme emergencies after students have provided documentation of said emergency.

6. **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. 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.

7. **Electronic Communication/Entertainment Devices**: 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…

   Cellphones: Cellphone use is prohibited. They must be turned off or on silent and in your backpack, purse, or pocket. No calls, no texting, and no internet access is permitted unless prior arrangements have been made with me.

   Laptops/tablets: Laptops and tablets may be used in class only for appropriate purposes i.e. following the lecture PowerPoint or taking notes. Inappropriate use, i.e. Pinterest, Facebook, or Twitter, will forfeit your privilege of using electronic devices. These devices will not be allowed during any exam or quiz. You will not be allowed to plug in a charger for any device during class. These devices are not necessary. All lecture PowerPoints and notes will be posted under Course Documents on the class website of the Student Portal. You may print them and bring these pages to class.

   Failure to comply with these rules will forfeit your privilege to use technology in the classroom and is grounds for dismissal from the class. You will receive a grade of F. A first offense will result in confiscation of

the device for one day. A second offense will result in loss of the device for one week. A third offense will result in loss of the device for the remainder of the semester.

8. **Accommodations**: 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 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.

9. **Non-discrimination:** 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.

10. **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 6 courses, 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 April 9th.

11. **Studying:** This course covers a lot of material and will move fast! Make sure that you do not get behind and schedule for regular study time. Needed study time will vary individually, but at least 8-10 hours per week is recommended outside of

class. The purpose of lecture is to further explain and reinforce comprehension of the reading material. It is in your best interest to complete reading assignments before coming to class. If you are having trouble with a topic or particular problems, please contact me for an appointment during office hours.

12. **Grievances/Appeal:** 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

Biology for Science Majors II – Spring 2026

Course Outline: The essence of life is change and so too this syllabus. 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.

Week of	Lecture Topics	Lab Activities
Jan 20th	Class begins January 20th. Welcome to Class, Syllabus, Introduction to Student Portal, and First Assignment Course Contracts Due on January 21st.	Exercise 1: Nova ScienceNow Video – *Can We Make it to Mars?* **Quiz 1: *Can We Make it to Mars?* Video Questions**
Jan 27th	**Chapter 11: Evolution and Its Processes** Chapter 11 Worksheet Chapter 11 Activity: Speciation **Quiz 1: Speciation** **EXAM 1**	Exercise 2: Life Begins: Crash Course Big History #4 and The Evolutionary Epic: Crash Course Big History #5 **Quiz 2: Crash Course Video Quiz**
Feb 2nd	**Chapter 12: Diversity of Life** Chapter 12 Activity: How to Build a Phylogenetic Tree	Exercise 3: Phylogenetic Trees **Quiz 3: Phylogenetic Trees** **Project Based Learning Lab – Should Energy Drinks be Regulated? (Lab Design and Experiment)**
Feb 9th	**Chapter 13: Diversity of Microbes, Fungi, and Protists** Chapter 13 Activity: Antibiotic Resistance Simulation **Quiz 2: Classification of Fungi**	Exercise 4: Microscopy and Identification of Fungi **Quiz 4: How to Make Fungi Slides** **Project Based Learning Lab – Should Energy Drinks be Regulated? (Presentation)**

Feb 16th	**Chapter 14: Diversity of Plants** Chapter 14 Activity: Genetics of Seedless Plants Article	Exercise 5: Plant Life Cycles Lab **Quiz 5: Plant Life Cycles**
Feb 23rd	**Chapter 14: Diversity of Plants** Chapter 14 Activity: Gymnosperms and Angiosperms	Exercise 6: Roots, Stems, and Leaves **Quiz 6: Roots, Stems, and Leaves** Exercise 7: *How Plants Communicate and Think* Video **Quiz 7: How Plants Communicate and Think**
Mar 2nd	**Chapter 14: Diversity of Plants** **Quiz 3: Plants**	Exercise 8: Flowers, Fruits, and Seeds **Quiz 8: Flowers, Fruits, and Seeds**
Mar 9th	**Chapter 15: Diversity of Animals** Chapter 15 Activity: The Diversity of Animals Chapter 15 Activity: Taxonomy of Animals **EXAM 2**	Nova ScienceNow Video – *Dogs Decoded* **Quiz: *Dogs Decoded* Video Questions** **Lab Practical # 1**
Mar 16th	**Spring Break**	**Spring Break**
Mar 23rd	**Chapter 16: The Body's Systems** Chapter 16 Activity: Digestive System **Quiz 4: Body Systems**	Exercise 9: Worm Necropsy **Quiz 9: Worm** Exercise 10: *Parasites Eating Us Alive* Video **Quiz 10: Parasites Eating Us Alive**
Mar 30th	**Chapter 17: The Immune System and Disease** Chapter 17 Activity: Autoimmune vs. Immunodeficiency	Exercise 11: Clam Necropsy **Quiz 11: Clam** Exercise 12: Crayfish Necropsy **Quiz 12: Crayfish**

Apr 6th	**Chapter 18: Animal Reproduction and Development** Chapter 18 Activity: Asexual vs. Sexual Reproduction **Quiz 5: Animal Reproduction** **EXAM 3**	Exercise 13: Human Evolution: Crash Course Big History #6 **Quiz 13: Human Evolution** Exercise 14: Fish Necropsy **Quiz 14: Fish** Exercise 15: Frog Necropsy **Quiz 15: Frog**
Apr 13th	**Chapter 19: Population and Community Ecology** Chapter 19 Activity: Symbiotic Relationships	Exercise 16: Rat Necropsy **Quiz 16: Rat**
Apr 20th	**Chapter 19: Population and Community Ecology** Exercise 19 Activity: Population Growth and Regulation Factors **Quiz 6: Ecology**	Exercise 17: Nova ScienceNow Video– *What's the Next Big Thing* **Quiz 17: *What's the Next Big Thing?* - Video Questions**
Apr 27th	**Chapter 20: Ecosystems and the Biosphere** Chapter 21 Activity: Food Chains vs. Food Webs **EXAM 4**	Exercise 18: Earth's Biomes Lab **Quiz 18: Biomes**
May 4th	**Chapter 21: Conservation and Biodiversity** Chapter 21 Activity: Conservation of Species	**Lab Practical #2**
May 11th	**Final Exam (May 11th)**	

Clarendon College

Division of Science and Health

BIOL 1307 and BIOL 1107:

Biology for Science Majors II

Class Contract

I,_____, have printed and have read the syllabus for **BIOL 1307 and BIOL 1107: Biology for Science Majors II** taught during the Spring 2026 semester by Kelli Bird 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