

BIOL 1306: Biology for Science Majors I

Class: 3 Semester Credit Hours
BIOL 1306.585 Monday 8:00-10:50

BIOL 1106: Biology for Science Majors I Lab

Lab: 1 Semester Credit Hours
BIOL 1106.585 Monday

Clarendon College
Division of Science and Health
Course Syllabus
Fall 2024

Instructor: Mrs. Rachel Randall

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Office Hours are by appointment.

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 two business days and provide feedback on assignments within 7 days of the due date.

Required Enrollment Verification Activity

This activity is a "Course Contract" that explains you understand and will abide by my class policies as explained in the syllabus. It is located in the Class Orientation section of your course.

Students who fail to complete the Syllabus Agreement EVA (Enrollment Verification Activity) by the official census date may not be able to continue in the course. This could result in an F for the course and forfeiture of Financial Aid. The census date for this term can be found on the Academic Calendar located at the Inside CC link on Clarendon College's home page.

BIOL 1306 Course Description: Fundamental principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of cytology, reproduction, genetics, and scientific reasoning are included.

Co-requisite: BIOL 1106 Biology for Science Majors I Lab

BIOL 1106 Course Description: This laboratory-based course accompanies BIOL 1306, Biology for Science Majors I. Laboratory activities will reinforce the fundamental principles of living organisms, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Study and examination of the concepts of cytology, reproduction, genetics and scientific reasoning are included.

Pre-/Co-requisite: BIOL 1306 Biology for Science Majors I

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

Required Instructional Materials Supplies: This course has a required textbook that is available online at no cost to students. The labs require materials that can be purchased at a grocery and/or variety store.

Required Text Biology 2e textbook authored and published by OpenStax College (License: [CC-BY 4.0](https://creativecommons.org/licenses/by/4.0/)). **You are responsible for reading the Text.** You can access and/or download the textbook material at <https://openstax.org/details/books/biology-2e>. 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.

Methods of Instruction: This course will utilize readings, PowerPoint presentations, forum discussions, audio-visual materials, and lab instruction.

Student Rights and Responsibilities: Student Rights and Responsibilities are listed on the College website at: <http://www.clarendoncollege.edu/Resources/Student%20Services/StudentRightsResponsibilities.pdf>

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.

Specific **Student Learning Outcomes** for the class and lab can be viewed from the THECB website at this link: <https://reportcenter.highered.texas.gov/training-materials/lower-division-academic-course-guide-spring-21/>

Course Expectations:

- You may expect a response time from me of a day (24hrs) on business days for messages or email, and perhaps two to three days for Forum grades.
- Etiquette expectations (netiquette) for all types of communication: You are expected to take responsibility in helping to maintain a classroom environment that is conducive to learning. Please be polite and maintain a professional tone in your writing. NO abusive language will be tolerated in this course.

Computer/Technology Requirement: This course uses a variety of web resources that require a good Internet connection and an up-to-date browser. The course will have its best appearance and functionality utilizing Mozilla Firefox. Note: If you use your iPad or iPhone to work in this course, download and use Mozilla Firefox to access the course instead of using Safari as your internet browser. Note: To use your **mobile device**, install the **Open LMS app**. Some activities cannot be completed on a mobile device.

You must have the following programs on your computer in order to use and complete these online courses:

- Adobe Reader (to view the PDF type of documents)
- Latest version of one of these internet browsers on your computer: **Mozilla Firefox, Google Chrome, or Microsoft Edge.**
- You must also have access to the **Microsoft Office** program that contains Microsoft Word to view some documents and PowerPoint to view some slideshows. (If you don't already have it on your computer, you can download the free Microsoft 365 available through Clarendon College. Click [these instructions](#) for help downloading it as well as accessing your Bulldogs email.)

Grading Policies: You will receive one letter grade for BIOL 1306 and one letter grade for BIOL 1106. Those grades come from the components described below.

BIOL 1306: Biology for Science Majors I Class

1. Required Enrollment Verification Activity (EVA): Required Enrollment Verification Activity

This activity is a “Course Contract” that explains you understand and will abide by my class policies as explained in the syllabus. It is located in the Class Orientation section of your course.

Students who fail to complete the Syllabus Agreement EVA (Enrollment Verification Activity) by the official census date may not be able to continue in the course. This could result in an F for the course and forfeiture of Financial Aid. The census date for this term can be found on the Academic Calendar located at the Inside CC link on Clarendon College’s home page.

2. Class discussions and presentations will count as 20% of your final course grade. This portion of your grade comes from your completion of class discussions and assignments that are posted in Open LMS.

3. Chapter quizzes and assignments will count as 40% of your final course grade. Each chapter has at least one quiz. BEFORE you attempt the quiz:

- Be sure to read the e-text chapter thoroughly.
- You may find it helpful to review the included PowerPoints as well as class notes that accompany the chapters.
- Be certain to complete the discussion or activity for that chapter.

- d. You will only have one attempt for each chapter quiz. Once you begin the quiz, you must complete it within the allotted time.
- e. No quiz grades will be dropped.

4. **Class exams will count as 40% of your final course grade.**

- a. The exams will utilize a variety of question formats (objective, matching, multiple choice, true/false, etc.)
- b. You will only have one attempt for each exam. Once you begin the exam, you must complete it within the allotted time.
- c. All class exams, including the final, will be weighted equally.
- d. Each exam covers the material covered since the last exam (not comprehensive).
- e. No exam grades will be dropped.

BIOL 1106: Biology for Science Majors I Lab

1. **Required Enrollment Verification Activity**

This activity is a “Course Contract” that explains you understand and will abide by my class policies as explained in the syllabus. It is located in the Class Orientation section of your course.

Students who fail to complete the Syllabus Agreement EVA (Enrollment Verification Activity) by the official census date may not be able to continue in the course. This could result in an F for the course and forfeiture of Financial Aid. The census date for this term can be found on the Academic Calendar located at the Inside CC link on Clarendon College’s home page.

2. **Lab quizzes and assignments will count as 60% of your final lab grade.**

- a. There will be **One Attempt** per quiz. Even though these quizzes are open notes; it would be to your advantage to watch the Video, read the Lab Exercise, and perform any required lab activities before taking the quiz.

3. **Lab exams will count as 40% of your final lab grade.**

- a. You will take a midterm and a final lab exam.
- b. These exams are equally weighted and non-comprehensive.
- c. You will only have **One Attempt** on the lab exams. **Neither one will be dropped.** They are closed book.

Grading Scale for the class and lab:

<u>Letter Grade</u>	<u>Numeric Grade</u>
A	90-100
B	80-89
C	70-79
D	60-69
F	59 and below

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

Academic Integrity Policy: An 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.

Be certain to review the Student Academic Integrity and Classroom Ethics policies in your Student Handbook. You are responsible for both knowing and adhering to these policies. You may access the Student Handbook at this link:

<https://www.clarendoncollege.edu/resources/student%20services/2018-2019%20student%20handbook.pdf>

Class Policies for 1306 and 1106:

1. **Attendance Policy:** Regular attendance is mandatory. Failure to attend can result in forfeiture of Financial Aid and failure of the class. For this course, I will submit an attendance report each Monday for the week

prior and on the census date.

2. **Make-up work:** Late work 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.
3. **Final Exam:** 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.
4. **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.
5. **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.
6. **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 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.
7. **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.

8. **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. (The last day to drop a course is available on the Academic Calendar, located at the Student link on the Clarendon College website.) 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 whatever grade you have earned.

Whether to drop a class or not requires a lot of thought. According to Texas state law a student is only allowed to drop the same class twice before he/she will be charged 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 6th dropped class, he/she will no longer be able to withdraw from any classes.

The last day to withdraw from this course with a "W" is Thursday August 29, 2024

Biology for Science Majors I

Tentative Course Calendar and Outline – FALL 2024

TENTATIVE COURSE SCHEDULE FALL 2024 BIOLOGY 1306 AND LAB 1106

	Lecture Biol 1306	Lab Biol 1106
Week 1 Aug 26 - Sept 1	Last day to add/drop Syllabus EVA Verify Identity Video Quiz 1 - Scientific Method Quiz 2 - Intro to Biology Unit 2 - Writing Assignment: Characteristics of Life	Last day to add/drop Syllabus EVA Quiz 1 - Lab Safety Quiz 2 Microscopy
Week 2 Sept 2 - 8	Quiz 3 - The Chemical Foundation Quiz 4 - Biological Macromolecules	Quiz 3 Prokaryotic Vs Eukaryotic cells LabXchange - Scientific Method
Week 3 Sept 9 - 15	Quiz 5 - Cell Structure Quiz 6 - Plasma Membrane Discussion - Tonicity	Quiz 4 Cell Anatomy Quiz 5 Cell Biology LabXchange - Diffusion, Osmosis, Tonicity
Week 4 Sept 16 - 22	Quiz 7 Cell Reproduction Exam 1	Mitosis
Week 5 Sept 23 - 29	Assignment - Cellular Respiration Quiz 8 - Metabolism Quiz 9 Cellular Respiration	Cell Respiration: Muscle Fatigue Lab
Week 6 Sept 30 - Oct 6	Quiz 10 Photosynthesis Exam 2	Photosynthesis
Week 7 Oct 7 - 13	Assignment - Meiosis Discussion Quiz 11 - Meiosis & Sexual Repro.	Quiz 6 Meiosis
Week 8 Oct 14 - 20	Quiz 12 Mendel's Experiments & Heredity	Quiz 7 Mendel's Laws
Week 9 Oct 21 - 27	Quiz 13 Modern Understandings of Inheritance Exam 3	Quiz 8 Monohybrid & Dihybrid Genetic Problems Midterm Exam
Week 10 Oct 28 - Nov 3	Quiz 14 DNA Structure and Function	Quiz 9 DNA: Secret of Life DNA Replication Interactive
Week 11 Nov 4 - 10	Quiz 15 Genes & Proteins	Quiz 10 Genetic Engineering & Plasmids

Week 12 Nov 11 - 17	Quiz 16 Biotechnology and Genomics Exam 4	Quiz 11 Population Genetics
Week 13 Nov 18 - 24	Quiz 17 History of Evolutionary Theory Quiz 18 Evidence of Evolution	Quiz 12 Origin of Species
Week 14 Nov 25 - Nov 27 (Thanksgiving Break)	Natural Selection Interactive Video Assignment	
Week 15 Dec 2 - 8	Quiz 19 Viruses	Dichotomous Key
Week 16 FINALS Dec 9 - 11	FINAL EXAM (Chp 18 and Ch 21)	FINAL EXAM PRACTICAL (Biochemical Evidence Interactive)