**Syllabus:** Principles of Biology I for Science Majors - Lecture & Lab
**Course Number:** BIOL 1306 & BIOL 1106
**Semester & Year:**

**Instructor Information**

 Name: Katie Teer

 BS in Secondary Education- Life Science

 MS in Curriculum and Instruction with 18 hours in Biology
 Office: Texarkana College – Biology Building Rm 31

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**Textbook Information**

**Principles of Life.** Hillis, Sadava, Heller and Price (2012)

 **Campbell Biology** 12th edition (AP)

**Biology** – Openstax Rice University (alternative free online textbook) <https://openstaxcollege.org/textbooks/biology>

**Class Contact Hours**

* When taking these classes on the TC campus, students have a total of 96 contact hours: 48 each for lecture and lab
* Due to our high school schedule falling short with a total of 63 contact hours, students will be expected to complete 33 hours outside of the regular class time. Sixteen and a half hours each for lecture and lab.
* These outside hours may include, but are not limited to - completing lecture notes, watching videos, writing essays, and completing virtual labs or other lab material.
* Students can be expected to complete these hours before school, after school, and while at home.

**Student Learning Outcomes for the Course**

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| --- |
|  *At the conclusion of the* ***lecture and laboratory portion*** *of this course students should be able to:*1. Apply scientific reasoning to investigate questions, and utilize scientific tools such as microscopes and laboratory equipment to collect and analyze data.
2. Use critical thinking and scientific problem-solving to make informed decisions in the laboratory.
3. Communicate effectively the results of investigations.
4. Describe the characteristics of life.
5. Explain the methods of inquiry used by scientists.
6. Identify the basic properties of substances needed for life.
7. Compare and contrast the structures, reproduction, and characteristics of viruses, prokaryotic cells, and eukaryotic cells.
8. Describe the structure of cell membranes and the movement of molecules across a membrane.
9. Identify the substrates, products, and important chemical pathways in metabolism.
10. Identify the principles of inheritance and solve classical genetic problems.
11. Identify the chemical structures, synthesis, and regulation of nucleic acids and proteins.
12. Describe the unity and diversity of life and the evidence for evolution through natural selection.
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**Student Assessment**

* Daily work, labs, and quizzes – 50%; Tests and Projects – 50%
* NO RETAKES OR RETESTS ON ANY ASSIGNMENT!!! (This is a college-level class and TC does not allow these.)
* **Late policy**: Daily assignments will be accepted late with a 10 point deduction each day for up to five days. After the fifth day, a zero will remain in the gradebook. Class projects or extended time assignments **will not** be accepted late.
* The semester exam is 10% of the semester average.
* Every student (registered or not) will be required to take semester exams.
* The grade you receive for this class will be the same grade used for Biology 1306 (the lecture portion) at TC. However, your lab grades will be entered separately in the TC gradebook and your lab grade may be different than your lecture grade. All lab assignments will be the same weight and I will drop the lowest grade.

**Grading Scale for dual credit course:** (Anything below a 70 is an F for high school credit!)

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| --- | --- |
| **Semester Grade**  | **Course Average** |
| **A** | 90-100 |
| **B** | 80-89 |
| **C** | 70-79 |
| **D** | 60-69 |
| **F** | 59-below |

**Class Schedule**

**1st Nine Weeks**

* Science Processes and Experimental Design
* Biochemistry
* Energy and Metabolism
* Cells
* Cell Membrane and Transport
* Harvesting Chemical Energy

**2nd Nine Weeks**

* Cell Communication
* The Cell Cycle
* Meiosis
* Genetics and Inheritance
* DNA and Protein Synthesis
* Gene Regulation
* Photosynthesis

**Absentee Policy**

The course will follow the Pleasant Grove High School attendance policy. Remember…. In DC classes, too many absences may result in you being dropped from the class. You must come to class!!

**Make-up Policy**

At least two test grades will be given each nine weeks. Since tests count 50%, it is very important that the student do his or her best and be prepared and present for each test. No retakes are allowed for any quiz or test. If a student is not present on the day a test is administered or lab conducted, an alternative test or lab activity may be taken or assigned. These must be done in the appropriate time frame based on district policy. Alternatives will cover the same material; however, number of questions and format is at the teacher's discretion. If not taken in a timely manner, student may receive a zero or reduced credit on the assignment/test. Students are encouraged to complete assignments in advance, especially when the absence is due to a school-related activity.

**Class Rules & Expectations**

1. Be on time.
2. Be prepared.
3. Be respectful.
4. Work hard.
5. Be responsible.
6. Be open to learning new concepts.

**Materials**

1. Something to write on, something to write with, and somewhere to keep your work.
2. Chromebook (be sure it is charged!)
3. Projects may require additional materials as needed.

**Classroom Policies and Procedures**

1. No cheating!!! Academic dishonesty is prohibited. This may result in a zero on the assignment/test and a phone call to parents. Academic dishonesty could also result in you being dropped from the college course.
2. No cell phones, electronic devices, or headphones at any time during class. Cell phones or other devices will be turned in at the beginning of class, and students will retrieve them before they leave. No exceptions. This is school policy!
3. If you have a planned absence it is your responsibility to get your work ahead of time. If it is unexpected, you must get your work upon return. Make up work timelines follow handbook procedure. **YOU** are responsible for getting work that you missed or will be missing!
4. PowerPoints/Presentations, assignments, articles, videos, and other links will be posted on **Google Classroom**. This is an excellent resource if you miss class
5. Take advantage of tutorials, Claim time, and Hawk Help. These are an excellent opportunity for help!
6. Chromebooks will be utilized for specific purposes throughout the year, but not on a daily basis. If we are not using them as a class on assignments and activities, chromebooks should be put away. Usage will be monitored and all network usage rules apply. Improper use of chromebooks will result in disciplinary action.
7. You will use EHallpass when you need to leave the room, however you will not be able to leave class regularly. Use your time between classes wisely.
8. All other student handbook rules and policies will be followed.

**Group Work**

* Science is social and group work is highly encouraged both in and out of class (except on quizzes and tests!)
* However…
	+ Group work involves: working together, sharing ideas, helping each other, collaborating, brainstorming, discussing
	+ Group work does not involve: copying, splitting up the work, telling answers, one person working while the others relax

**Labs**

* Students must follow all safety guidelines. (These are posted in Google Classroom.) Failure to do this can result in removal from the lab and alternative assignments.
* Not all labs will be able to be completed during class time. Parts of some labs must be done outside of class, including pre and post lab assignments. Some labs require students to come in at times other than normal class times and it is the students'/group's responsibility to do so.
* In labs, students will be encouraged to engage in the following:
	+ Generate questions for investigation
	+ Choose which variable to investigate
	+ Design and conduct experiments
	+ Design experimental procedures
	+ Collect, analyze, interpret and display data
	+ Determine how to present conclusions
* Lab work will be presented and recorded in a variety of ways. This may include lab handouts, mini-posters and presentations, or lab notebooks.
* Labs may also include pre-labs and lab reflections.
* It is very important to be present on lab days. Missing lab work is very difficult to make-up. You are responsible for ALL lab concepts and material, even if you were not present for the lab.
* Lab quizzes and tests will be given. You need to understand the lab...not just complete it!

**Academic Integrity Statement**

Scholastic dishonesty, involving but not limited to cheating on a test, plagiarism, col­lusion, or falsification of records will make the student liable for disciplinary action after being investigated by the Dean of Students. Proven violations of this nature will result in the student being dropped from the class with an “F”.

This policy applies campus wide, including TC Testing Center, as well as off-campus classroom or lab sites, including dual credit campuses. This information can be found in the Student Handbook at <https://texarkanacollege.edu>.

**Disability Act Statement**

Texarkana College complies with all provisions of the Americans with Disabilities Act and makes reasonable accommodations upon request. Please contact Larry Andrews at 903.823.3283, or go by the Recruitment, Advisement, and Retention Department located in the Administration building for personal assistance.

If you have an accommodation letter from their office indicating that you have a disability which requires academic accommodations, please present it to me so we can discuss the accommodations that you might need for this class. *It is best to request these changes at the beginning if not before the start of class* so there is ample time to make the accommodations.

**By signing this statement**, **I agree that I have received Mrs. Teer's syllabus, read it, and understand what is expected of me to perform satisfactorily in this course of study**.

Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
(**PRINT** First & LAST NAME)

Legal Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

TC Course Number / Section Number: BIOL 1306 and 1106

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Please sign and return this page next class for a 100!**

**Keep the syllabus pages for future reference if needed. This is also posted in Google Classroom.**

Parent/Guardian Name (printed): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/Guardian Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_

Parent/Guardian Contact Info (email and/or phone number): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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