**Hill College**

**112 Lamar Drive**

**Hillsboro, Texas 76645**

**COURSE SYLLABUS**

**Course Prefix and Number Course Title**

BIOL1408 Sections: All BCHS Sections Semester: Fall, 2023 General Biology I for Non-Majors

**Instructor:** Hoyet Taylor, MS

**Contact:** BCHS, RM 124

Office hours by appoint.

817.202.5897 htaylor@hillcollege.edu

**Catalog Description**

Provides a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function and reproduction.

For students in this course who may have a criminal background, please be advised that the background could keep you from being licensed by the State of Texas. If you have a question about your background and licensure, please speak with your faculty member or the department chair. You also have the right to request a criminal history evaluation letter from the applicable licensing agency.

Lecture Hours: 3 Lab Hours: 3 Semester Hours: 4

Prerequisite:

None

Introduction and Purpose:

This course is meant to introduce students to the world of biology. It will teach them the basics of life and science, as well as discuss genetics and biotechnology.

The course can be used to fulfill core requirements for graduation and/or transfer to senior institutions.

Instructional Materials:

Textbook: *Concepts of Biology* by Open Stax, Rise University, Houston, TX 77005. ISBN 978-1-938168-11-6

Supplies & Materials: Computer access

Objectives/Student Learning Outcomes:

At the completion of this course, students should be able to:

1. Distinguish between prokaryotic, eukaryotic, plant and animal cells, and identify major cell structures (ACGM 1).
2. Identify stages of the cell cycle, mitosis (plant and animal), and meiosis (ACGM 2).
3. Interpret results from cell physiology experiments involving movement across membranes, enzymes, photosynthesis, and cellular respiration (ACGM 3).
4. Apply genetic principles to predict the outcome of genetic crosses, and statistically analyze results (ACGM 4).
5. Describe karyotyping, pedigrees, and biotechnology and provide an example of the uses of each (ACGM 5).
6. Identify parts of a DNA molecule, and describe replication, transcription, and translation (ACGM 6).
7. Analyze evidence for evolution and natural selection (ACGM 7).

Method of Instruction:

This course will be taught face-to-face and by various distance learning delivery methods.

Audio-visual materials and computer-based technology will be used when appropriate. Students will be shown how to use a calculator where appropriate.

Methods of Evaluation:

Grades in this course will be based on the following evaluative criteria:

The average of the course curriculum will make up \_55\_% of the students’ grades. The laboratory will make up \_25\_% of the students’ grades. The final exam will make up \_20\_% of the students’ grades.

Letter grades for the course will be based on the following percentages:

90-100% A

80-89% B

70-79% C

60-69% D

Below 60% F

Course Policies:

1. No food or drink allowed in the lab. Follow safety protocols while in the lab. This includes wearing required PPE.

2. I don’t accept late work for regular assignments. If you miss a practical, and you have a university approved absence, then you may be able to complete a make-up practical. You need to let me know within a week of the deadline if you miss an assignment and you have a valid excuse.

3. If you need to contact me, you need to do so through your student email account. Always put the course and section number in the subject line of the email.

4. You are expected to have regular attendance for class, and to come to every class prepared by reading the labs and completing the pre-lab work prior to lab.

5. You are expected to pay attention in class, and be actively engaged in the activities or discussions that are held during class. Students who disrupt the learning environment or fail to maintain a supportive learning environment will have points deducted from the day’s activity.

6. If you have more than 3 unexcused absences during the semester you will receive no consideration on your final grade in the course. If you miss more than 20 minutes of class, you will be counted absent.

7. I do not accept late work on regular assignments.

8. If you have a question regarding the course, the best course of action is to speak with me in person before class, after class, or during office hours. If this is not possible, please email me. I will answer within 24 hours, Monday-Friday 8:00AM-4:30PM. Please note that emails received outside of working hours will be answered the next working day.

9. If a student participates in any behavior that can be characterized as academic dishonesty (including cheating on an exam or assignment, or plagiarizing a written paper), then he/she will be reprimanded by the instructor, and or he/she will receive a 0 on the assignment. If the behavior occurs again, then the student will be referred to the Academic Dean.

10. It is your responsibility to obtain any notes, handouts or assignments you miss as a result of an absence.

11. Please don’t ask for extra credit at the very end of the course. There will be no free points awarded or extra work available at the end of the semester to boost your grade. Requests for such will be ignored.

12. All tests will be given through Schoology and proctored electronically in the presence of the instructor (unless otherwise instructed), on the dates given in the syllabus.

13. Electronics will be used within the classroom for instruction and testing in accordance with Hill College and BISD electronics policies at the discretion of the instructor.

Course Content by Topic (see BCHS outline for daily schedule):

Week 1 Introduction to biology and the scientific method

Week 2 The chemistry of life

Week 3 Cell structure and function

Week 4 How cells obtain energy

Week 5 How cells obtain energy continued, and photosynthesis

Week 6 Photosynthesis

Week 7 Reproduction at the cellular level

Week 8 Reproduction at the cellular level continued

Week 9 The cellular basis of inheritance

Week 10 Patterns of inheritance

Week 11 Molecular biology

Week 12 Biotechnology

Week 13 Evolution and it’s processes

1. Free tutoring is available to Hill College students. Please visit <https://www.hillcollege.edu/Student/Advising/Tutoring.html> for more information.
2. If a student participates in any behavior that can be characterized as academic dishonesty (including cheating on an exam or assignment, or plagiarizing a written paper), then he/she will be reprimanded by the instructor, and he/she will receive a 0 on the assignment. If the behavior occurs again, then the student will be referred to the Dean.
3. Student conduct outlined in the policy manual (found here: https://pol.tasb.org/Policy/Section/649?filter=F) will be enforced in this class. The complaint process is also described in the policy manual. Plagiarism is also described in the policy manual.

Disabilities/ADA

Reports of discrimination based on disability may be directed to the ADA/Section 504 coordinator.  The College District designates the following person to coordinate its efforts to comply with Title II of the Americans with Disabilities Act of 1990, as amended, which incorporates and expands the requirements of Section 504 of the Rehabilitation Act of 1973, as amended:

Name:           Lizza Ross

Position:       Vice President Student Services

Address:       112 Lamar Drive, Hillsboro, TX  76645

Telephone:  (254) 659-7601

Students with qualified and documented disabilities may request accommodations which will enable them to participate in and benefit from educational programs and activities.  Students should contact the Academic Advising and Success Center for more details at 254-659-7650 for Hill County Campus, 817-760-5650 for Johnson County Campus, or 817-295-7392 for Burleson Center.

Title IX

Reports of discrimination based on sex, including sexual harassment or gender-based harassment, may be directed to the Title IX Coordinator.  The College District designates the following person to coordinate its efforts to comply with Title IX of the Education Amendments of 1972, as amended, and related state and federal laws:

Name:          Adrian Riojas

Position:       Dean of Students

Address:       2112 Mayfield Parkway, Cleburne, TX  76033

Telephone:   817.760.5504

Email: [ariojas@hillcollege.edu](mailto:ariojas@hillcollege.edu)

Webpage: [TitleIXcontact (hillcollege.edu)](https://www.hillcollege.edu/Faculty_Staff/HR/Title9.html)

Statement of Nondiscrimination: The College District prohibits discrimination, including harassment, against any employee on the basis of sex. Retaliation against anyone involved in the complaint process is a violation of College District policy and is prohibited.

The information in this syllabus is subject to change.

(08/17/2023)

Please read the statement below and sign the appropriate lines within, and at the bottom of the page.

I \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ do acknowledge that I received and/or have access to a copy of the course syllabus.

I understand the course requirements.

I have also been shown or provided the link for the policy manual and I understand that I am responsible for my behavior and will be held accountable for my actions.

I understand that I will follow the policy manual regarding student conduct.

I further understand that if I have a complaint or grievance relating to this class, I should follow the chain of command according to the Hill College Policy.

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Signature Date