

SYLLABUS
Centennial High School
2017-2018

Course #: 8355	Teacher Name: Charles Beile
Course Name: Biology 1	Room Number: East 211 Phone #: 763-792 -5178
Semester 1	E-Mail: cbeile@isd12.org
Prerequisite: None	Credit Earned: 1/2

Course Description:

Biology 1 is a general biology class with a focus on the cellular basis of life. This course will focus on the cellular nature of life with special focus on cell structure and function, DNA and the building of proteins, Genes and inheritance of traits, homeostasis, and how the immune systems works. The goal of student learning will be on improving their understanding of the cellular structure and function that makes up all life. Students will develop science inquiry and literacy skills by designing, performing and analyzing experiments.

Students will also be keeping an Interactive Science Notebook.

Course Objective: Students will...

Compare/Contrast viruses, prokaryotes, and eukaryotic cells in terms of size, structure and complexity.

Describe the basic molecular structure and function of carbohydrates, lipids, proteins, and nucleic acids.

Identify and explain the basic function of cell organelles as they relate to important cell processes.

Explain how DNA, Genes, and Chromosomes are related and function in: passing on traits, protein synthesis, mutations, cancer and genetic variation within a species.

Explain the process of mitosis and meiosis and explain the advantages and disadvantages of asexual and sexual reproduction.

Describe how feedback systems work to maintain homeostasis within systems.

Describe how the immune system functions.

Demonstrate competency in the process of experimental design and science practice by doing labs and student inquiries and experiments.

Course Expectations:

Learning concepts in science takes focus and effort. The activities and assignments given in class will help you organize and clarify the concepts that we are learning about. You will learn more if you do your own work and do it on time. Copying others peoples work or turning it in late will reduce your chance to learn. Working with others in a group to do labs and discuss ideas is an expectation of all students. Your willingness to engage others in thoughtful conversation and problem solving is a necessary skill and expectation of this science class and the world of work.

Attendance: (Three unexcused tardiness are equivalent to one unexcused absence)

Missing class and being tardy will affect what you learn in class and your grade. Unexcused absences and tardiness will be recorded and reduce your final grade as described in the school handbook. **You are to be in the classroom when the bell rings to avoid being marked tardy. BE SURE TO GET A PASS FROM THE TEACHER OR OFFICE THAT DETAINS YOU AND PRESENT IT TO ME TO EXCUSE YOUR LATE ARRIVAL**

Behavior: The activity of science demands a climate of respect. Students will be expected to respect the opinions of others and the material used in class. Safety is a primary concern and students will be expected to follow rules and procedures given by the instructor. You should be able to work with others and be willing to participate in class discussions. **The use of cell phones and other electronic devices may be used by**

students for learning activities with prior approval by the instructor. **Please keep phones out of sight and turned off unless prompted by the instructor to use them.**

Materials Needed: Science requires keen observations and the recording of data and ideas... YOU MUST BRING WRITING MATERIALS AND YOUR **INTERACTIVE SCIENCE NOTEBOOK TO CLASS DAILY**. YOU WILL BE EXPECTED TO KEEP AN ORGANIZED NOTEBOOK TO RECORD YOUR WORK, NOTES, LABS AND REFLECTIONS ON LEARNING. You will be doing mathematical problem solving that will require the use of calculators. **Bring your calculator to class.**

Late work: *All assignments for each unit are due by the unit test. Missing assignments will be given ½ credit.* School policy states that make-up required activities like: classroom assignments, tests and quizzes are to be made up within two (2) school days for each day absent, unless other arrangements are made with the teacher. You are responsible for making up work missed during an excused absence. Please talk to me about it before or after school. Class work missed because of an **unexcused absence** may not receive credit.

Assessment of Learning and Grades: Students will be given Learning Targets for each unit that will provide the framework for assessments/tests. All students may retake any test within two weeks of taking it for the first time. Retake of previous tests will be done before the next unit test. Retake of tests will be available during Leap or Before/After School. Justification of missed questions/learning targets to earn back points may be an option to retesting. Grades will be weighted with 60% on Tests and Quizzes and 40% Daily Work, Labs and Notebook.

Extra credit projects are not available.

PARENT PORTAL ACCESS: This course will be accessible one-line to parents to check their student's progress. Typically, I am able to update student grades on a weekly basis. Parents must register for a password to access the Campus program by filling out a form available in either the West or East Office.

GRADING

A = 100 – 93	C- = 72 – 70
A- = 92 – 90 (Exemplary work – 90%-100% mastery of subject goals)	D+ = 69 – 67
B+ = 89 – 87	D = 66 – 63 (Mediocre work – 60%-69% mastery of subject goals)
B = 86 – 83 (Proficient/thorough work – 80%-89% mastery of subject goals)	D- = 62 – 60
B- = 82 – 80	NC = 59 – 0 (Unacceptable work – less than 50% mastery of subject goals)
C+ = 79 – 77	
C = 76 – 73 (Acceptable work – 70%-79% mastery of subject goals)	

Communication: I will be using Schoology for a daily log of information about the class. The course will be **Bio. 1 2017-18 Beile** I will post a brief description of daily tasks and copies of assignments to be downloaded. This information is on the updates page. The materials page will have extension materials and links to extend learning. Please use the Schoology resource when you are absent to review what you missed. Feel free to download assignments. My e-mail is cbeile@isd12.org. Please use this to communicate with me.

Personal Note:

I am available before school at 7:30 a.m. or after school from 3:00-3:30 p.m. for extra help, tutoring, test review or if you just want to stop in to talk to me. I promise to do my part in making your experience in this science class a positive one. You and I share the responsibility of doing our best each day to learn as much as possible and have fun doing it. **Working together we can achieve more.**
Thank you for your effort in helping make this a great class!

Sincerely, Mr. Beile