

Biology Course Outline



What To Expect:

This biology class is designed to have each student play the role of a scientist. We will be exploring various branches of biology including biochemistry, cellular biology, genetics, evolution, and ecology. As a scientist, the student will be asked to become familiar with the laboratory equipment, perform various laboratory skills, understand scientific concepts and terminology, and participate in group activities, discussions and labs.

Required Materials

- 2 Inch Binder
- Dividers
- Notebook Paper
- Colored Pencils
- Pencil
- **Blue** or **black** ink pens

What We Will Learn:

- The student will demonstrate an understanding of how scientific inquiry and technological design, including mathematical analysis, can be used appropriately to pose questions, seek answers, and develop solutions.
- The student will demonstrate an understanding of the structure and function of cells and their organelles.
- The student will demonstrate an understanding of the flow of energy within and between living systems.
- The student will demonstrate an understanding of the molecular basis of heredity.
- The student will demonstrate an understanding of biological evolution and the diversity of life.
- The student will demonstrate an understanding of the interrelationships among organisms and the biotic and abiotic indicators of their environments.

Student Resources:

Text Book: **Biology McGraw Hill**

*Students will not be issued textbooks unless requested by the student. This book can be accessed electronically. Login information can be found on the classroom website.

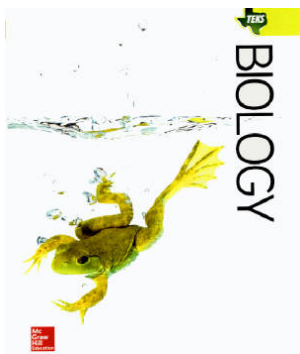
Classroom Website: **www.knightsciencekhs.weebly.com**

Our classroom website is designed to assist students with their work in our biology class. Students can find the classroom agenda, homework assignments & video lectures, project outlines, bellringers, copies of handouts, and updated grade reports.

Remind: This tool can be useful by parents, students, and teachers as it allows for free, safe, easy-to-use communication outside of email. Announcements and reminders can be sent to the class via text message. Information to join Remind can be found by accessing our class website or by using the QR codes found in the classroom.

"Those who contemplate the beauty of the earth find reserves of strength that will endure as long as life lasts."

- Rachel Carson, biologist



"If we kill off the wild, then we are killing a part of our souls."

-Jane Goodall, primatologist



"It is not the strongest of the species that survives, nor the most intelligent, but the one most responsive to change."

-Charles Darwin, naturalist

Classroom Expectations:

Be Responsible

Be Respectful

Be Ready to Learn

In the case that a student is not abiding by the classroom expectations the following consequences will be issued:

1. Redirection from the teacher.
2. Conference with student.
3. Morning or lunch detention assigned.
4. Email, phone call, or conference with the parent.
5. Referral to the administration.

Grading Expectations:

Students will be evaluated on their understanding of the various biology standards through a variety of formative (35%) and summative (65%) assessments. Students' overall grade will be calculated with scores earned from a number of assignments and tests. The grade will be determined by overall points in three main areas:

1. Homework, Notebook, and Planner
2. Labs, Activities, and Class Discussions
3. Tests, Projects, and Quizzes

Missing Work Policy:

Absences:

1. It is the student's responsibility to find out what was missed on the day that he/she was absent. Daily agendas and homework assignments can be found in the **Homework and Agenda Binder** in the classroom or by visiting the classroom website: **www.knightsciencekhs.weebly.com**
2. Work assigned prior to a student's absence must be turned in or completed the day the student returns to school.
3. If a test or quiz was given during the student's absence, it must be made up during lunch or before school within 5 days following the absence.
4. Students shall receive credit for satisfactory make-up work after an unexcused absence. The highest grade, however, for satisfactory make-up work after an unexcused absence shall be a grade of 50 percent.

Late Assignments:

Late assignments will be accepted for partial credit. For each day the assignment is late 10% will be taken off of the earned score.

This class includes several labs and in-class activities that are ongoing; it is very important that students attend class and participate each day.

Tutorials:

In the event that you are absent for an extended period of time, we may discuss planning a time to meet one-on-one to catch you up on the material you missed while you were gone. When you are absent for an extended period of time, the workload when you return can seem overwhelming. Please do not hesitate to ask for help. I am here for you!

I truly look forward to working with you and getting to know you this year. My hope is that you leave this class at the end of the year with an appreciation for the biological sciences and a better understanding of the wonderful world around you. I strongly encourage students and parents to contact me at any time with questions or concerns. I am available to assist students before school and during lunch as well as by appointment.

-Mrs. S. Brooke Knight

Please sign and complete the "1st Day of Biology Assignment Sheet" and the "Biological Sciences Safety Contract" Your signature will serve as an indication that you have read and understand the outlined expectations and procedures for our class. Additionally, you have visited our classroom website and are familiar with the resources available to students taking Biology.



"A scientist in his laboratory is not a mere technician; he is also a child confronting natural phenomena that impress him as though they were fairy tales."

-Marie Curie, physicist-chemist
