

**FRIEDRICH FROEBEL BILINGUAL SCHOOL  
SCIENCE DEPARTMENT  
HIGH SCHOOL**

**Subject: Biology**

**School Year 2018-2019**

**Textbook: Holt McDougal; Biology; Nowicki ©2012**

**Teacher: L. Calero**

**Blog:** <https://sciencemakersblog.wordpress.com>

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**Office hours:** By agreement

- I. **Course Description:** Biology is a one-hour daily course that deals with the study of living things, from the tiniest bacterium to the largest tree. Its objectives are aligned with the School's curriculum, as well as the National Science Education Standards. The course includes a laboratory where the students can observe and apply acquired knowledge in hands on activities.
- II. **General Objectives:** By the end of the school year students should be able to: understand what modern biology is, explain the chemistry of living things, and explore scientific thinking; recognize different type of cells, the structures and functions of their specialized parts; explain sources of genetic variation, how the genetic makeup of an organism is determined, and how biotechnology can change an organism's DNA; discuss the basic principles of evolution and natural selection, and the history of life on Earth; understand various types of interactions and how scientists study them; be aware of how humans can impact ecosystems; classify living things according to their characteristics, and explore the diversity; explain plant physiology, life cycles and responses; discuss the common characteristics of all animals, animal diversity and behavior; and describe how your body systems work together to maintain homeostasis, structures and functions of major body systems.
- III. **Course Content:**

| <b>Unit</b>                         | <b>Quarter</b>          |
|-------------------------------------|-------------------------|
| <b>Introducing Biology</b>          | 1 <sup>st</sup> Quarter |
| <b>Cells</b>                        | 1 <sup>st</sup> Quarter |
| <b>Genetics</b>                     | 2 <sup>nd</sup> Quarter |
| <b>Evolution</b>                    | 2 <sup>nd</sup> Quarter |
| <b>Ecology</b>                      | 3 <sup>rd</sup> Quarter |
| <b>Classification and Diversity</b> | 3 <sup>rd</sup> Quarter |
| <b>Plants</b>                       | 4 <sup>th</sup> Quarter |
| <b>Animals</b>                      | 4 <sup>th</sup> Quarter |
| <b>Human Biology</b>                | 4 <sup>th</sup> Quarter |

**\*\* This syllabus is a guide for the course and is subject to change. Changes, if any, will be announced in class. Students will be held responsible for all changes.**

#### **IV. Required Materials**

Notebook, pencils, erasers, ruler, composition paper and coloring pencils. Calculators will be used in class and on tests when directed by the teacher (Phones, iPods, mp3 players, or any other devices are not allowed as calculators). Students will also be asked to bring two (2) hanging file folders (shown in class) for the year. Any other materials required will be requested with, at least, five (5) days of prior notice.

#### **V. Evaluation Methods**

|                              |     |
|------------------------------|-----|
| ** Tests (4 -5 per semester) | 40% |
| ** Projects                  | 20% |
| **Classwork/ Homework        | 30% |
| **Quizzes                    | 10% |

#### **VI. Class Procedures and Discipline Policy**

Late assignments and make-up work:

Unexcused late work (including homework as well as major assignments) will not be accepted in this class.

In the case of an excused absence, the student must turn in assignments within two days of the absence and, also within the two-day period, must make up tests that were administered during the absence. (The student should make arrangements with the teacher.) If an assignment was given before the absence, the student is expected to send the work or turn it in on the day of his or her return to school.

If the student does not have access to a computer or typewriter at home, the parent should notify the teacher at the beginning of the school year so there is time to explore possible options.

The teacher will not excuse work that is late due to printer problems (no ink cartridge, etc.). The student must also bring, on or before the assignment due date, a parent note which describes the nature/circumstances of the problem.

When major technology problems occur unexpectedly (a computer crash, for example), the student may handwrite the composition neatly in black ink on paper. The student must submit a parent note of explanation along with the handwritten work. In the case of a major technology problem the evening before the due date for an assignment or project, the student may be granted a brief extension. The student must bring a parent note of explanation on or before the date the assignment is due.

#### **VII. Discipline Policies**

The teacher will try to work with each student in areas that need improvement. If problems persist, the teacher will notify the student's parent(s). If misbehavior continues, the teacher will

submit a referral to the social worker/administration for action. Students who create severe disturbances in class will be removed immediately. Further, the teacher will support all school policies outlined in the Student Handbook and will follow the Discipline Plan required by school administration. Classroom rules include:

Be on time. (The teacher will follow school policy.) If you are late for any reason, you must furnish a late pass from the school office, even if you have a pass from another teacher.

Bring appropriate materials.

Have completed homework in class. (Students will not be able to return to their lockers during class.)

Follow procedures for unexcused absences. (See student handbook.)

Limit requests for restroom visits to extreme emergencies.

Refrain from speaking out in class and calling out responses. You must raise your hand.

Leave gum and candy out of the classroom.

Refrain from leaving seat without permission.

Refrain from socializing and behaving in a disruptive manner.

Cell phones are prohibited. (See student handbook.)

Sit up during class. (It helps concentration.)

Read and abide by rules and procedures outlined in the student regulation.

Respect others' right to learn.

Let's have a great year!

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**Parent/Guardian and Student Signature Page**

I have read the Biology Course Syllabus and I understand the course requirements as well as the Classroom Rules and Procedures.

|                              |                           |       |
|------------------------------|---------------------------|-------|
| _____                        | _____                     | _____ |
| Student Name (print)         | Student Signature         | Date  |
| _____                        | _____                     | _____ |
| Parent/Guardian name (print) | Parent/Guardian Signature | Date  |

7am – 4 pm Phone(s): (     ) \_\_\_\_\_ - \_\_\_\_\_                      Parent email address: \_\_\_\_\_  
(     ) \_\_\_\_\_ - \_\_\_\_\_

**Please cut on dotted line and return this portion by the next class meeting.** \* This form IS FOR A Homework GRADE and must be returned to your teacher by August 14<sup>th</sup> 2018