# **Bartlett High School**

## Course Syllabus for Biology I - Mr. Youngblood

**2019-2020**

#### Course Content

**First Quarter**: **Third Quarter:**

(1)What is Biology/Science? (4) DNA to Protein

*-Science as a way of knowing -Transcription & Translation*

*-Inquiry -Mutations*

*-Characteristics of Living Organisms*  *-Epigenetics*

(2) Cellular & Molecular Basis of Life (5) Genetics & Human Heredity

*-Cell Structure & Function - Mendelian Genetics*

*-Chemistry of Living Organisms - Meiosis*

*-Cell Respiration & Photosynthesis - Pedigrees & Karyotypes*

*-Cell Growth and differentiation - Genetic Disorders*

**Second Quarter:** **Fourth Quarter:**

(3) Membranes & Transport (6) Evolution

-*Membrane structure -Darwin’s Theory*

*-Movement of molecules -Evidence for Evolution*

*-Homeostasis -Natural Selection & Adaptations*

(4)Information and Heredity *-Population Genetics*

*-Storage & Transmission of Heritable Traits -Speciation*

*-DNA: The Molecule of Life -Taxonomy & Diversity*

*-Replication -Connecting Evolution & Ecology*

*-Genetic Engineering* (7) Extensions

*-Comparative Body Systems*

*- Animal Systems & Behavior*

*- Ecology*

### Course Textbook

Levine, Joe and Ken Miller, *Prentice Hall* *Biology*, New York: Pearson, 2014.

### Course Materials/Supplies/Fees

**Each student will need the following materials:**

1. Binder or notebook
2. Dividers
3. Black pen
4. Pencils
5. Colored pencils
6. Metric ruler
7. Paper

**Biology I**

**Mr. Youngblood - Bartlett High School**

**2019 - 2020**

Dear Biology Students and Parents,

Welcome to Biology. This course is designed to give students an introduction to biological concepts and principles. The course covers a wide range of topics ranging from molecular biology and cellular activities to evolution and animal systems. Because we cover a wide range of topics, it is important that students keep up with the class and their coursework.

We will be conducting laboratory experiments during the course of the year, and it is extremely important from a safety standpoint that students conduct themselves in an appropriate manner at all times. Academic dishonesty (cheating) will not be tolerated, so please understand that your work in class must be your own.

Grades taken in the class are a combination of daily assignments, quizzes, tests, projects, and lab experiments. Remember that your grade in the class can be checked anytime with Q. The breakdown for grades is as follows:

**50% *Test/Quiz/Project* 30% *Lab* 20% *Daily Assignments***

The following are some classroom procedures/expectations students will be expected to follow while in Biology class.

I ask that you and your parents/guardians read over this as well as the course syllabus, sign the last page, and return the acknowledgement page to indicate that you are aware of what will be required of you.

\* Students are expected to be on time and bring the proper materials to class each day. This includes binder or notebook, pencil/pen/paper, a good attitude, and any other necessary supplies (ex. colored pencils if notified).

\* Students are responsible for obtaining their make-up work as well as making arrangements for any labs or tests/quizzes missed during an absence.

\* Students should respect other students, the teacher, and themselves. Keep in mind that you are here to learn - try your best, and everything will go exceedingly well.

If I become aware that your child is in need of intervention or extra help I will contact you. If you have any questions or concerns, please feel free to contact me at any time.

Sincerely,

Mark D. Youngblood

(BHS Science)

Phone: (907) 742 - 1939

E-mail: youngblood\_mark@asdk12.org

Website: www.youngbloodscience.weebly.com

***Biology Syllabus Acknowledgement Page***

***Mr. Youngblood***

***Bartlett High School***

***2019 – 2020***

Please sign and return this page:

I have received and reviewed the course syllabus for Biology. If I have any questions or issues, I will bring them to the attention of the instructor.

Student Name (printed): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Student Signature Date

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Parent Signature Date