**Honors Biology I – Fall 2016**

***Course Information***

Room Location: B221

Textbook: Miller & Levine Biology by Kenneth R. Miller & Joseph S. Levine 2017

Welcome to Biology I

Biology can be a fun and useful course when you begin to really understand how it relates to the world around us. I am looking forward to an exciting semester with you and providing a conducive learning environment rich in enthusiasm and knowledge of the subject. To this end I commit to:

* Be proficient in the subject matter.
* Be available to answer your questions or discuss anything pertaining to this course.
* Be on time and prepared for class daily.
* Provide coherent notes and instruction.
* Manage and control the class to provide a conducive learning environment.
* Clearly communicate test dates, due dates and course policies.
* Fairly apply CCSD, Wando, and class policies and procedures.
* Care about you and your learning in Biology class.

Working together with you and having your parent’s support will provide you with the best opportunity for achievement in this course. This is a standards based course and there is an EOC (End of Course) Exam.

***Instructor Information***

Instructor Name: Tim Wanninger

Instructor Schedule: Block 1-2: Honors Biology 1 Block 4: Biology I - CP

Contact Information: Email: timothy­\_wanninger@charleston.k12.sc.us. Phone: 843-881-8200ext: 23980

I welcome parent and student phone calls and emails.

Opportunity for Help & Support: Mon & Thur. 7.30-8.00am or by appointment

For additional information, please visit my web page at <http://wandohigh.ccsdschools.com/> or [**wannbio.weebly.com**](http://lillibridgebiology.weebly.com/)

***Course Materials***

* Journal type pad to be used for Bell work
* Notebook paper
* Pen and pencils
* Colored pencils
* Highlighter(s )

***Course Description***

This introductory laboratory-based course is designed to give students a sound background in the major biological concepts. It builds on the chemical principals learned in physical science.

Topics include:

* 01 Intro to Biology
* 02 Biomolecules
* 03 The Cell, Organelles & Viruses
* 04 Cell Transport
* 05 Cell Cycle, Mitosis, Cancer & Stem Cells
* 06 ATP, Photosynthesis & Cellular Respiration
* 07 DNA, Mutations & Biotechnology
* 08 Meiosis & Inheritance
* 09 Evolution & Classification
* 10 Ecology

Laboratory activities provide numerous opportunities for students to develop science process skills, critical thinking, and an appreciation for the nature of science through investigative, hands-on lab activities. A state mandated End-of-Course (EOC) Examination will be given to **every student** enrolled in this course. The score will count 20% of the final semester grade. No student can exempt the Biology final exam.

***Course Standards***

This course complies with the [South Carolina State 2014 Standards](http://ed.sc.gov/scdoe/assets/file/agency/ccr/Standards-Learning/documents/South_Carolina_Academic_Standards_and_Performance_Indicators_for_Science_2014.pdf)

**H.B.1** **Science & Engineering Practices**: The student will use the science and engineering practices, including the processes and skills of scientific inquiry, to develop understandings of science content.

**H.B.2 Cells as a System:** The student will demonstrate the understanding that the essential functions of life take place within cells or systems of cells.

**H.B.3 Energy Transfer:** The student will demonstrate the understanding that all essential processes within organisms require energy, which in most ecosystems is ultimately derived from the Sun and transferred into chemical energy by the photosynthetic organisms of that ecosystem.

**H.B.4 Heredity:** The student will demonstrate an understanding of the specific mechanisms by which characteristics or traits are transferred from one generation to the next via genes.

**H.B.5 Biological Evolution:** The student will demonstrate an understanding of biological evolution and the diversity of life

**H.B.6 Ecosystem Dynamics:** The student will demonstrate an understanding that ecosystems are complex, interactive systems that include both biological communities and physical components of the environment.

***Student Expectations:***

Accept personal responsibility for your learning. Your instructor serves as a mentor and resource.

Take responsibility for keeping up with the class schedule and course material. Absence is not an excuse, nor does it take away your responsibilities.

Recognize that mastery (earning an A) requires that you apply what you've learned to new situations or to solve new kinds of problems.

Understand grades are earned by consistent effort, hard work, and learning.

Understand that you need to study outside of class time.

Do your class work and your home work to the very best of your ability.

Be respectful of the teacher, students and equipment in our classroom.

Bring your materials and come to class prepared and ready to learn.

***Course Policies***

* ***Behavioral*** 
  + - All Charleston County School District and Wando High School rules will be followed including dress code, IDs, cell phones or portable electronic device usage.

**Electronic Devices**

* The Wando High School policy is clear on the use of cell phones in classrooms.

[**http://wandohigh.ccsdschools.com/for\_parents/school\_policies/electronic\_device\_policy/**](http://wandohigh.ccsdschools.com/for_parents/school_policies/electronic_device_policy/)

* The expectation is for students to have their phones put away, out of sight from bell-to-bell. There are times when students will be directed to use their cell phones for biology-related tasks. During these times the expectation is for students to remain on task and not use their phone for other non-biology-related purposes. If, at anytime during class I observe the expectation not being met, I will follow school procedure.

**Food**

Snack foods, defined as single-serving prepackaged foods, are allowed in the classroom and must be consumed within the 1st 10 minutes or last 10 minutes of class. No food allowed on lab days. Students are expected to clean up after themselves. This is a privilege and will be revoked if the room does not remain clean of food and wrappers containing food.

* + - **Graffiti**
      * Defacement and/or disrespect of school or classroom property will lead to a detention and a referral.

**Exiting the classroom**

Students at times request to leave the classroom during class time for various reasons (i.e. bathroom break, visit a vending machine). Each student is expected to take care of their bodily functions outside the classroom. However, in the event this does not occur the following rules apply

Student may only make the request during times of group work and NOT during directed, instructor-led learning.

Student must complete the hallway passport in their Wando planner book.

Student must sign out upon leaving at the door and sign in upon return.

This is a privilege and will be revoked if these rules are not followed.

* + - **Consequences of inappropriate behavior:**
      * 1st Offense – warning
      * 2nd Offense – referral to the office
* ***Grading***
  + - * This class is, in part, evaluated by the state in a ***non-exempt***, End-Of-Course (EOC) Exam to be taken before the end of the semester.
      * The unit tests are organized, implemented and evaluated in a way that will maximize the student and the teacher’s efforts to prepare for the state exam.
      * Not all assignments will be graded. Some assignments are provided for the student to practice skill and comprehend knowledge. However, your efforts on each assignment build and reinforce your knowledge to prepare you for the quizzes, then the unit tests and ultimately the State EOC exam.
* **Quarter Grades:** Quarterly grades will be determined as follows:
  + - * 50% Tests & Major Assessments: Unit tests, presentation(s), paper(s), formal lab report(s), and any other major unit type of work done in or out of school.
        + Unit tests are given at the end of a unit of study, which is completed every 1-2 weeks. These tests contain a mix of multiple choice, short answer, interpreting data, and discussion questions. **Most** test questions reflect content covered in the classroom, in assignments, in bell work and in readings. Generalizing information along with connecting and applying it to other situations is a valuable skill and is measured on the state EOC exam. Therefore, some test questions will exist to provide an opportunity for the student to demonstrate this skill.
      * 30% Quizzes & Minor Assessments: Bell work and other Quizzes, other non-formal lab work specified by the instructor.
      * 20% Classwork and Group work: POGIL activities, worksheets, Gizmos, and any other daily assigned work to the student.
* **Semester Grade:** The EOC state standardized test will count for 20% of the final course grade. This final grade will be averaged with the 1st and 2nd quarter grades as follows:

40% 1st Quarter grade 40% 2nd Quarter grade 20% End of Course Exam

* ***Make-up work***
  + - **IMPORTANT**: It is the responsibility of the student to initiate makeup work.
    - Test and assignment due dates will be communicated to students well in advance.
    - The absent student is responsible for checking with the instructor at a time OTHER THAN DURING CLASS. Acceptable times to be updated as to any make-up work required would be before or after class or school.
    - **Tests**
      * If you miss the day of a unit test, you will take a make-up test upon your return. Make up tests will not be the same questions as the original test and may consist of multiple choice, short answer, and essay questions.

**Assignments**

* Assignments must be completed and turned in on time to receive maximum point value.
* Points will be deducted (10%) for each school day an assignment is late. Any assignment completed after the 4th school day will be recorded as a maximum of 50%.
* Teacher discretion will be used in the event of an extended absence or other situation.
  + - * ***Class Procedures:***
* Bell work will be completed as soon as you enter the classroom. A separate journal notebook is required for the bell work.
* Attendance will be taken at the beginning of class. If the classroom door is closed, you will need to get a tardy pass.
* This may seem simple but…. Bring your materials to class! I try to have extra materials available but sometimes extras are not available from the teacher. If you misplace your notes or assignments you will need to go on-line and print what you need from my website.
* Keep up with all assignments as they are given. This will help you understand and remember the information.
* If you feel that you need extra help, I am available after school or arrangements can be made on an individual basis. Please let me know when you are coming.
* Always feel free to ask questions to maximize your understanding during class. If you have a question or are confused about something, speak up! Chances are that someone else has the same issue.
* The student will remain in their seats and is expected to be working on class materials until the bell rings. There will be no standing at the door to leave.

***Parents/Guardians:***

* **If you choose to donate a classroom item on the wish list, please send it to school with your child at your convenience – thank you.**
* **Class Material Wish List:** I always need the following items (in order of need). Donations are greatly appreciated!

1. Boxes of tissues
2. Colored pens or pencils
3. Tape
4. Zip-loc sandwich bags
5. Paper Towels
6. Hand Sanitizer

**Biology I – Fall 2016**

**Biology Laboratory Safety Procedures**

**Always follow directions and adhere to all cautions and warnings for each lab exercise to guarantee the success of yourself and your fellow classmates.**

**Proper Lab Dress**: Dressing properly for lab exercises ensures your safety as well as the safety of those around you. Please take it seriously.

* Wear closed toe shoes
* Do not wear dangling necklaces, bracelets or shirts with dangling sleeves
* Hair that is shoulder-length or longer should be tied back
* Wear safety goggles when instructed to do so

The following behaviors will result in removal **from lab and a possible grade of zero**.

* Horsing around (including running, throwing materials, careless use of supplies or equipment)
* Intentional abuse or misuse of supplies or equipment
* Eating or drinking in the lab area
* Not following directions

**Keep this packet of information in your notebook for future reference and return this page to your teacher after reviewing each section with a parent or guardian.**

I have read and understand the Biology I course Syllabus and the Laboratory and Safety Procedures. I agree to adhere to the policies set forth therein.

Student Name (Printed) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent Name (Printed) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent Contact Information:

Phone (best phone for daytime contact): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Phone (best phone for evening contact): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Email: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Any information that would be helpful or that you think I should know:

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