

ADVANCED BIOLOGY SYLLABUS FALL 2018 – SPRING 2019

Instructor: Mr. Jim Sutter

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Availability: 1 hour after school or by appointment

COURSE DESCRIPTION

Biology is devoted to the study of living things, their processes, and their interactions. Throughout the year, this course provided an opportunity for students to develop scientific skill, laboratory techniques, and an understanding of the fundamental principles of living organisms. Students will explore biological science as a process, cell structure and function, genetics and heredity, evolution and classification, the diversity of living organisms and their ecological roles, and an introduction to animal structure and function. This advanced course was specifically designed to prepare students for the life science topics on the Ohio Graduation Test and for future, higher level high school, and preparedness for post-secondary education. Numerous lessons, labs, and other tasks have been coordinated with professors and other professionals ranging from universities, business, restoration groups, and local action-volunteer organizations. Several times during the school-year, individuals from these various organizations will give guest lectures and demonstrate field collection and laboratory methods. Additionally, the class may be invited to visit various locations, some of these locations will be operating labs, field-sites, and businesses.

TEXT USED: BIOLOGY. MILLER AND LEVINE. 2010

COURSE SUPPLIES

o 1 or 1.5 inch binder o 3x5 note cards o loose leaf paper o 1 fine point and 1 ultra-fine point sharpie marker o writing utensils and highlighters

ASSESSMENT Your grade in this course will be based on the building grading policy:

- Your grade is based on 90% assessment/ 10% homework/classwork completion

Note the following:

- 1 retake is offered to all students per summative assessment; the grade will be averaged with the first exam. The second exam is based on teacher's discretion. A testing ticket must be performed BEFORE the retake is given. This can include but not limited to the following: any missed homework, any assigned supplemental work, an AC visit for help. The make-up date will be discussed on an as needed basis.
- It is the student's responsibility to verify his/her eligibility for reassessment with the teacher and to schedule the reassessment. The retest will NOT be given during class time. It must be scheduled during Academic Coaching or before/after school. Teachers will set the re-test date.
- Quizzes are not included in retakes; teacher discretion.
- When outside work is assigned, it is expected to be completed. It is practice for the subject at hand.
- Papers/ projects: With these types of assessments, points will be deducted for late

submission: 1 day – 10 points; 2 days -20 points; 3- days 30- points; 4 days – 40 points. See teacher if issues arise.

- Labs – all science labs must be completed – teacher will provide the process for this on an as needed basis.

** QA scores that reflect information that have been taught and tested will count as 1 test grade per 9 week period. The finale exam for the year is not up for retake.

GRADE SCALE:

A 92.5 – 100 A- 89.5 – 92.4 B+ 87.5 – 89.4 B 82.5 – 87.4 B- 79.5 – 82.4 C+ 77.5 – 79.4 C 72.5 – 77.4 C- 69.5 – 72.4 D+ 67.5 – 69.4 D 62.5 – 67.4 D- 59.5 – 62.4 F 0 – 59.4

COURSE POLICIES

- Attendance and Participation Students are expected to be on time and actively participating in every class. ATTENDANCE Attendance is a PRIORITY in Wellston City Schools! EXCUSED absences will allow students to make up any missed assignments. Students will be given one day for each day each excused absent to make up work unless other arrangements are made in advance. To be successful in this course, students need to be present in this class. Please note that I do NOT vary from the school policy regarding UNEXCUSED absences. For UNEXCUSED absences, you may make up your work for partial credit; you have as many days that you missed to make it up. You can retake an assessment due to an UNEXCUSED absence, but the retake will be averaged with a zero.

- Make Up Work Make up tests and quizzes resulting from excused absences should be scheduled with the teacher and completed within roughly the same number of days as the student was absent. When a student is absent their work is put into the “Make Up” folder. It is the student’s responsibility to collect their work, complete it, and hand it in. They are also responsible for scheduling missing assessments. Assessments that are not made up will eventually be given a grade of 0%. You might be scheduled to attend an AC session to complete missed work.

- Extra Credit Extra credit is not given. Bonus questions may appear on assessments that are based on previously learned material. Students who go significantly above and beyond what is required for tasks and assignments may be awarded bonus points onto those assignments.

- FOOD & DRINK Building wide: Food is not allowed in the room except for breakfast from school cafeteria, rewards issued by the teacher or the “snack shack” period. Only water in a clear bottle will be allowed in the classroom unless purchased from the “Thirsty Camel.” Teachers have a right to not allow food or drink in their classroom.

ACADEMIC INTEGRITY You are encouraged to study together and to discuss information and concepts covered in class with other students. However, this permissible cooperation should never involve one student having possession of a copy of all or part of work done by someone else, in the form of an e-mail, e-mail attachment, text, disk, zip drive, or hard copy. Copying down something that you do not understand on homework, classwork, or an assessment is considered cheating. Cheating of any form will result in a zero; 2nd offensive will result in suspension. DON’T CHEAT!

CELL PHONE: All cell phones are to be off and out of sight unless they are required for a

classroom activity. Students may be asked to place their phones in a secure location for the duration of the class if he/she cannot keep it out of sight. If a cell phone is out or on during an assessment, the student will receive a 0 for the test; the second time he/she is caught, the student will be suspended. Cell phones will be asked for if the cell phone is not put away properly. The cell phone will be given to the office and the office will issue discipline. This includes ear buds. Please refer to student handbook

GENERAL BUILDING RULES/CONSEQUENCES: WHS has 3, building wide, classroom behavior expectations:

1. Follow all directions/rules 2. Respect all people and property 3. Be on time, prepared and ready to work. ** Teachers will provide their individual rules that reflect these expectations on the first day of school.

Classroom consequences may include but not limited to the following: 1 verbal warning may be issued, Student conference, reassigned seat/period, parental call, lunch/after/before school detention, behavior assignment and/or office write up.

Instructor comments:

As this is an advanced level course, it is particularly important for students to keep up with assignments and tasks. If any are missed or if you are having any issues, please come to the instructor immediately for assistance. Additionally, any students who do not treat guest speakers, their equipment, or facilities with the utmost respect, will be dis-invited from attending future guest events or field trips.

COURSE OUTLINE (SUBJECT TO CHANGE...)

Quarter 1:

- Characteristics of Life
- Types of Cells & Cell Theory
- Prokaryotes and Eukaryotes
- Cell Transport
- Respiration & Fermentation

• Quarter Review Quarter 2:

- Mitosis
- Meiosis
- Introduction to DNA
- DNA & RNA
- Genetic Processes

• Quarter Review Quarter 3:

- Introduction to Natural Selection
- Speciation
- Making Cladograms & Tree of Life
- Homologies & Analogies
- Biological Classification
- Your Inner Fish Series

- Evidence of Evolution
 - Quarter Review Quarter 4:
- Intro to Ecology
- Living Relationships (Symbiosis, Ect.)
- Carrying Capacity
- Invasive Species
- Endangered Species & Biology/Environment Issues

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Biology 2018-2019: Sutter

Student Signature: _____ **Date:** _____

Parent Signature: _____ **Date:** _____