

South Gibson County High School
Biology I Fall 2018

Instructor Contact Information:

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Google Classroom: AJ Biology I
Access Code: tyx59b2

Course Description: Students will investigate biological systems at the molecular and cellular level. Hands-on laboratory exercises incorporating biochemistry, cellular biology, DNA technology, genetics, evolution and ecology will be provided to assist students in their understanding of biological themes. The life sciences are designed to investigate the concepts of plant and animal characteristics. The structure and function of organisms will be analyzed, as well as, life processes and classification systems. The biological studies will also examine the interrelationships between organisms and their environment.

Text, Supplies and Laboratory Fees:

Biology: McGraw-Hill- binder, notebook paper, pencils, scissors, glue stick, a flash drive and/or a 'smart' tech-device. Phones/smart-tech devices will only be used when approved by the instructor. A laboratory fee of **\$15.00** is collected for use of materials in the Biology Lab.

Assignments and Grading Scale:

Formal Assessments - 80 % of the quarter grade (evaluations/tests/major projects)
Comprehensive, objective and analytical evaluations based on the TN Curriculum of Standards for the Biology I course. (*Ex: Scientific processes; Biochemistry; Cell Structure and Function; Cellular Reproduction; DNA & Protein Synthesis; Genetic Heredity & Engineering; Natural Selection; Adaptations and Classification; Photosynthesis & Respiration; Ecology and Animal Organization*) **Progressive grading** policies will be implemented. i.e. Scores **may improve** with evidence of mastery on subsequent assessments.

Daily Practice: Journal entries, notebook checks, bell-ringers, paired practice, class work and daily reviews. These assignments reflect first time learning and support the student's preparation for quizzes and major assessments.

Informal Assessments - 20% of quarter grade (lab assignments, quizzes, etc.)
Individual, paired and group activities, laboratory experiments, tactical activities, & quizzes. These assignments reflect mastery in learning and should reflect the student's understanding of curriculum concepts.

Make-up work: Make-up work must be completed within 5 school days in order to receive credit. If students miss a formal or informal assessment they should be prepared to take it upon their return.

(Classroom norms, procedures, ICU/academic support on reverse side of syllabus)

Class Participation:

Students are encouraged to participate in:

*Classroom discussion/input/dialogue; Small group activities; Partner Assignments
Preparation for class by having all materials and assignments; On task behaviors
Compliance and respect for classroom/laboratory norms and procedures*

Classroom Norms and Procedures: I expect my students to:

- *follow all school and district policies (tech devices only as approved by instructor)*
 - *be respectful of the teacher, themselves, and others at all times; and follow common rules of courtesy.*
 - *be alert, prepared, and ready to participate in class. This includes having all materials, books, and assignments in class every day. Anyone entering the classroom after the bell rings will be counted tardy. (**No food or drink** with the exception of closed water bottles)*
 - *be quiet and respectful when visitors are present, announcements are being made, or instructions are being given.*
 - *follow all safety contract policies (Lab Contract will be addressed prior to lab assignments)*
 - *be responsible for your actions, schoolwork, and any make-up assignments, labs, quizzes, or tests missed due to absences.*

Achievement Expectations:

South Gibson County High School strives to be a training ground for college and career readiness. Therefore, all students are expected to complete all assignments that support the learning of the state standards and complete those assignments to an acceptable level of mastery and in a timely manner.

- In the event that a student does not meet the requirements of an assignment/task, consequences indicated in the rubric will be implemented.
- Students are responsible for earning their grades. However, should a student continually refuse to make reasonable efforts to complete the requirements for earning credit in the course, failure of a course is a possibility after all other measures to be successful have been exhausted.

Academic Support:

Focus- provides academic support. Students will be able to attend tutoring sessions, complete assignments, get one on one instruction with their teachers, attend club meetings, work in the computer lab, visit the media center, etc.

Peer Tutors – before and after school

Compass Odyssey – a supplemental software program that our system provides for enhanced learning to include: Physical Science, Biology, Chemistry and Physics.

- *I will offer after school tutoring to be scheduled as needed-*

Please **sign below** indicating that you have read and understand these policies. Thank You!

Biology I Syllabus

A Jackson

Student's name (print)_____

Student's signature_____

Parent/Guardian signature_____ **Date**_____

Parent/Guardian phone (home, cell, work)_____

Parent/Guardian e-mail address_____

Biology I

Course Schedule Pacing Guide

Weeks #1-3: Introduction to Biology; Scientific Methods and Procedures; Lab Safety; Biochemistry of Organic Macromolecules; Lab - Formal Assessment

Week #3-5: Cell Structure & Function; Lab; Cell Membrane & Transport; Lab – Progressive Formal Assessment

Week #6-7: DNA, RNA, Transcription, Translation & Protein Synthesis; Lab – Progressive Formal Assessment

Week #8: Review for Mid-Term –

MID – TERM EXAM October 10th , 11th

Week #9-10:

Cellular Reproduction: Mitosis/Meiosis; Lab – Formal Assessment

Week #10-11: Heredity, Genetic Probability, Pedigrees – Progressive Formal Assessment

Week #12-13: Mutations; Genetic Engineering; Gene Technology, Karyotypes
Natural Selection; Biodiversity & Classification- Progressive Formal Assessment

Week #13-14: Flow of Matter & Energy (Photosynthesis)
Flow of Matter and Energy (Cellular Respiration); Lab-Progressive Formal Assessment

Week #14-15: Interdependence; Biogeochemical Cycles; Ecology - Assessment
EOC Practice & Review

Week #16: **END OF COURSE TESTING**

Week # 17: Annelid & Amphibian Anatomy; Dissection Lab

Week #18: Review for Final Exam –

FINAL EXAM December 17th, 18th

Please consult my website for documents, notes, study guides, etc

Board Policy 4.400

Upon request, parents/guardians shall have the ability to inspect the following items: instructional materials; teaching materials; teaching aids; handouts; and tests that are developed by and graded by their child's teacher. Parents wishing to inspect such materials should contact the building level principal in writing.