

Biology I

Course Syllabus

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[OneNote](#)

Design

This course is designed for those students who desire a thorough background in basic biology and a strong basis for further science study. The course of study in Biology includes all the major themes essential to understanding life. This is often achieved through problem solving, laboratory experiences, and group activities. The text material provides the factual foundation necessary to understanding the principles of life discussed in the course.

Content

Topics include but are not limited to the following: the cell, photosynthesis, cellular respiration, and mitosis. Specific standards might include:

- HS-LS1 From Molecules to Organisms: Structures and Processes (HS-LS1-1, HS-LS1-2, HS-LS1-3, HS-LS1-4, HS-LS1-5, HS-LS1-6, HS-LS1-7)
- HS-LS-2 Ecosystems: Interactions, Energy, and Dynamics (HS-LS2-3, HS-LS2-4, HS-LS2-8),
- HS-LS3 Heredity: Inheritance and Variation of Traits (HS-LS3-1, HS-LS3-2, HS-LS3-3),
- HS-PS4 Biological Evolution: Unity and Diversity (HS-PS4-1, HS-PS4-2, HS-PS4-3, HS-PS4-4, HS-PS4-5, HS-PS4-6)
- HS-ETS Engineering Design (HS-ETS1-1, HS-ETS1-2, HS-ETS1-3, HS-ETS1-4).

Work Expectations

It is expected that all work will be completed in class. Work that is not completed in the time allotted will need to be done outside of the classroom. There will be optional practice worksheets as the need arises for students to complete on their own time, should they choose to do so.

Any missed live/wet labs will need to be made up on a student's own time and will need to be coordinated with the instructor prior to the desired time. Optional times for live/wet lab make-up include before school, lunch, or after school.

Behavioral Expectations

- No food allowed in the classroom. Only water in a clear container will be accepted in the front of the classroom (nothing allowed in the lab area)
- Respect everyone in the classroom (teachers, students, guests, etc...)
- Respect the materials in the room
- Stop talking when the instructor is speaking. Follow directions once they are given
- Do not use cell phones for personal communication during class time
- BE SAFE

Assessments

Assessments will be given in a variety of ways but will be heavily performance-based. Lab reports, projects, and models will be common-place assessments.

All student work will be weighted in the following manner:

- In class work: 10%
- Labs: 40%
- Projects: 35%
- Final: 15%

Grading

Traditional grading will be used in this class. Points will be assigned per project, assignment, lab, quiz, etc. and will be entered into Infinite Campus upon grading. Please check Infinite Campus for your most current grade.

90-100% A

80-89.9% B

70-79.9% C

60-69.9% D

<60% F