

Biology 11 – Syllabus

Teacher Trevor Gallant
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Room 246

Extra Help
Mornings from 8:15 to 8:45

Course Description:

Biology 11 emphasizes the nature of life. Lecture and demonstration methods are used together with a laboratory program. Science 9/10 will prepare students for this Biology course. Topics include biodiversity, cellular matter and energy flow, energy and matter exchange by humans and other organisms, and energy and matter exchange in ecosystems. This course offers a preparation for Biology 121/2

Prerequisites:

[N/A]

Corequisites:

[N/A]

Major assessments that are not completed will be recorded as Incomplete (INC) and the final mark will be changed to INC until the assessment is completed and handed in.

An INC at the end of the course will result in the student not earning a credit in the course.

Assessment Plan

Unit 1 - Experimental Design and the Scientific Method	6.25%
Unit 2 – Cells and Cell Processes	10%
Unit 3 – Evolution	12.5%
Unit 4 – Biodiversity	8.75%
Unit 5 – Homeostasis	12.5%
Science Practices	50%

Learning from Home:

The expectation is that all students will engage in the daily work assigned by their teachers during at-home learning days. Each student is expected to join the Teams meeting during class on their at-home learning days. This may include actively participating in live-streamed lessons during class time, online group work, completing projects, reading, watching videos, completing practice work, or other tasks. The expectations will be different for each class, so be sure that you clearly understand what each teacher needs you to do on each of your at-home learning days.

Course Outline

Unit 1 – Experimental Design and the Scientific Method

Unit 2 – Cells and Cell Processes

- Cell Theory and Characteristics of Life
- Prokaryotic and Eukaryotic Cells
- Cell Size
- Membrane Structure and Function
- Transport Across Membranes

Unit 3 – Evolution

- The Theory of Evolution
- Contributing ideas
- Evidence
- Speciation

Unit 4 – Biodiversity

- Principles of Taxonomy
- The Six Kingdom System (Archaeobacteria and Eubacteria, Protista, Fungi, Plantae, Animalia)
- Viruses

Unit 5 – Homeostasis

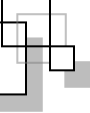
- The Form and Function of Respiratory Systems
- The Form and Function of Circulatory Systems
- The Form and Function of Digestive Systems (and Nutrition)
- The Form and Function of Excretory Systems

Assignments

- All assignments **MUST** be submitted via Microsoft Teams. Assignments may be typed but they do not have to be. You may also submit a photograph of your assignment.
- Students may complete most assignments with a partner, but all students will be assessed individually. Assessment on each assignment will be based on mastery of six important science practices (http://thelessonlocker.com/kvhs/biology/Science_Practices.pdf). All assessment will be oral, and a student can attempt to improve his/her assessment result on any science practice for any assignment as often as s/he likes until the desired level of mastery is reached.
- Missing assignments will be awarded a grade of INC.

Tests

- Tests will be taken by all students on the day decided by the class. There are no make-up tests. Students who think they might need extra time to complete tests can begin at 8:15 am.
- All tests will consist of a multiple-choice section and a free response section. All parts of all tests are open book.
- If a student misses a test, s/he must take that test during the assessment week at the end of the semester.
- If a student needs to miss a test for some reason (a school event, compassionate circumstances, *etc.*), s/he must see me **BEFORE** the test is scheduled to be written so that alternate arrangements can be made.



Quizzes

- We will have a quiz every Wednesday. The quiz will always cover everything we have learned since the previous quiz, so you should try to review your notes for a few minutes each day.
- Quizzes are always based on material in the online notes. For this reason, students will be required to write a quiz even if they were absent the day the material was presented. Exceptions to this can be made on an individual basis for extended absences.
- The quizzes are intended to help students become familiar with the terminology and basic concepts in the course. Although they are not included in a student's final grade, they should be taken seriously as a powerful learning tool.