Biology 11 Course Outline

Mr. L. Lee

Rm 119

LIFE SCIENCES 11 COURSE OUTLINE

PREREQUISITES: You should have achieved at least a C+ in Science 10 (especially the chemistry and biology units). You are now senior high school students and are expected to handle much more material in greater depth. The ability to memorize a lot of content in a short amount of time will be important to have success in the course.

COREQUISITE: Chemistry 11 is recommended, as we will be doing some biochemistry in the course.

REQUIRED MATERIALS

TEXTBOOK: Miller and Levine Biology – this is a reference for home use and will not really be used in class.

- o lined paper, multi-coloured pens, pencils, ruler...
- calculator for microscope work
- camera for microscope work or dissections

EVALUATION

A <u>rough</u> breakdown of the value of marks within each reporting period is as follows:

TESTS: 60%

QUIZZES/LABS/HOMEWORK: 40%

CONTENT

UNIT 1: CELLS AND LIFE HISTORY

- Cell structure and function
- Energy Transformations in cells
- Cell cycle
- DNA structure
- DNA replication
- Protein synthesis

UNIT 2: EVOLUTION

- Evidence of macroevolution
- Adaptations to changing environments
- Changes in DNA
- Natural Selection
- Speciation
- Mechanisms of macroevolution

UNIT 3: CLASSIFICATION & TAXONOMY

- Taxonomic principles for classifying
- Binomial nomenclature
- The fossil record
- Trends in complexity among various life forms
- Evidence for phylogenetic relationships
- Prokaryote classification

UNIT 4: 6 KINGDOMS

- Survey of prokaryote, protist, fungi, plant and animal groups
- Anatomy and Physiology (form and function)
- Comparisons between plant group structures
- Comparisons between animal group structures

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STUDENT EXPECTATIONS

Attendance Policy

• **Be on time** – if you are late, the door will be closed. Wait outside quietly and you will be let in when it is appropriate. If there is a quiz or test that day, you will not be provided additional time!

- **Pay attention**: No doing other class work, sketching, chatting with friends, using electronic devices, etc. as this is rude to me and distracting to your classmates.
 - a) Missed Quizzes: Pending submission of a valid note, you may be omitted from the quiz. If no note/excuse is given, a mark of zero will be assigned. It is your responsibility to get the missed notes from a friend so that you don't fall behind.
 - b) Missed Tests: These must be made up at the earliest date possible and students must provide a parent's note to have the opportunity to write an alternate test. If no valid note/excuse is given, a mark of zero will be assigned.
 - c) Late Homework/Assignments: 10% will be deducted each day. After 3 days late, the maximum attainable mark is 50%. Weekends count as one day.

Electronic Devices

• Please read the student handbook requiring the VSB's position on this.

Food and Drink

• Liquids with a lid are allowed in the laboratory. Any food brought into the classroom may be thrown away without question (especially on lab activity days).

WEBSITE: https://mrleehamber119.wordpress.com

You are responsible for checking this in the evenings as I usually put important updates on quiz/test dates, and address issues brought up in class. In addition, you will find answers to homework and review worksheets, **plus** tips for quizzes and tests.

NOTE: Class notes will NOT be put online unless there are extenuating circumstances. It is your responsibility to attend class to get the notes.