

SBI3U - Grade 11 University Biology



Teacher

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Room 222

Resources

Textbook: The grade 11 Biology textbook is "Biology 11" by Nelson. The replacement cost of the textbook is **\$90**. The book can be borrowed physically or virtually.

Overall Course Expectations

A. SCIENTIFIC INVESTIGATION SKILLS AND CAREER EXPLORATION

Throughout this course, students will:

- demonstrate scientific investigation skills (related to both inquiry and research) in the four areas of skills (initiating and planning, performing and recording, analyzing and interpreting, and communicating);
- identify and describe a variety of careers related to the fields of science under study, and identify scientists, including Canadians, who have made contributions to those fields.

B. Diversity of Living Things

- analyze the effects of various human activities on the diversity of living things
- investigate, through laboratory and/or field activities or through simulations, the principles of scientific classification, using appropriate sampling and classification techniques
- demonstrate an understanding of the diversity of living organisms in terms of the principles of taxonomy and phylogeny

C. Evolution

- analyze the economic and environmental advantages and disadvantages of an artificial selection technology and evaluate the impact of environmental changes on natural selection and endangered species
- investigate evolutionary processes, and analyze scientific evidence that supports the theory of evolution
- demonstrate an understanding of the theory of evolution, the evidence that supports it and some of the

mechanisms by which it occurs

D. Genetic Processes

evaluate the importance of some recent contributions to our knowledge of genetic processes, and analyze social and ethical implications of genetic and genomic research
investigate through laboratory inquiry or computer simulation, the functional responses of the respiratory and circulatory systems of animals, and the relationships between their respiratory, circulatory, and digestive systems
demonstrate an understanding of animal anatomy and physiology, and describe disorders of the respiratory, circulatory and digestive systems

E. Immune System

- Antibiotic resistance, Viral Mutation (Covid 19), Immune system function

F. Biochemistry (metabolism/digestion)

Evaluations:

Tests 50%

Quizzes 25%

Assignments 25%

Academic Honesty: Cheating and Plagiarism

Students are expected to submit only their own original work on evaluations and assignments done in class or out of class. Plagiarism is the passing off the ideas or writings of another as one's own. Cases of academic dishonesty (cheating and/or plagiarism) will be dealt with on a case-by-case basis, but each case will involve investigation, communication with the student and his/her parent/guardian, and a mark of zero for plagiarized work. Whether the student has an opportunity to demonstrate his/her learning in another assignment will be at the discretion of the teacher and/or Principal.

Academic Integrity: Missed Classes, Evaluations and Assignments

It is the **responsibility of the student** to notify **all** appropriate parties (teachers, office, etc) **in advance** where appropriate and in compliance with school policies and procedures if the student will be absent. This allows for both the student and teacher to make alternative arrangements. **In the event that advance notice is not possible**, students/parents should **email the school** and **email their teacher** to ensure that student and teacher have an opportunity to connect about alternative arrangements.

Electronic Learning:

Students are expected to access our class Brightspace and join the meeting link which will be posted on the announcements (course home page).