

Lambton Kent Composite School



Course: Grade 11 Biology **Course Code:** SBI3U **Grade:** 11
Course Type: University Prep **Credit Value:** 1 **Prerequisite:** SNC2D
Curriculum Document: The Ontario Curriculum, Grades 11 and 12, Science – 2008
Textbook: MHR Biology 11

Course Description: This course furthers students' understanding of the processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biodiversity; evolution; genetic processes; the structure and function of animals and the anatomy, growth, and function of plants. The course focuses on the theoretical aspects of the topics under study, and helps students refine skills related to scientific investigation.

Required Materials: Students are expected to come to class every day prepared with:
3 ring binder lined paper textbook eraser
ruler calculator pencils/pens pencil crayons

Units of Study	Big Ideas
Unit 1 – Genetic Processes	<ul style="list-style-type: none">• Genetic and genomic research can have social and environmental implications• Variability and diversity of living organisms result from the distribution of genetic materials during the process of meiosis
Unit 2 – Diversity of Living Things	<ul style="list-style-type: none">• All living things can be classified according to their anatomical and physiological characteristics• Human activities affect the diversity of living things in ecosystems
Unit 3 – Evolution	<ul style="list-style-type: none">• Evolution is the process of biological change over time based on relationships between species and their environments• The theory of evolution is a scientific explanation based on a large accumulation of evidence• Technology that enables humans to manipulate the development of species has economic and environmental evidence.
Unit 4 – Animals: Structure and Function	<ul style="list-style-type: none">• Groups of organs with specific structures and functions work together as systems, which interact with other systems in the body• The development and uses of technology to maintain human health are based, in part, on the changing needs of society.
Unit 5 – Plants: Anatomy, Growth, and Function	<ul style="list-style-type: none">• Plants have specialized structures with distinct functions that enable them to respond and adapt to their environment• Plant variety is critical to the survival and sustainability of ecosystems

In addition to the units of study, students will also develop **Scientific Investigation Skills** like initiating and planning, performing and recording, analyzing and interpreting, and communicating.

Late Policy: Students are expected to submit all assignments within the time frame specified. While teachers will consider extenuating circumstances, late students are subject to mark deductions. If an assignment is late, a penalty of 10% per school day will be deducted, up to a maximum of 50%. Once assignments have been returned to the class, late submissions may receive a mark of **zero**.

Evaluation: A student's final grade in the course will be determined as follows:

70 % TERM MARK This will include a variety of evaluations such as tests, quizzes, assignments and presentations and will be marked according to the following weightings.

Knowledge and Understanding	30%	Application	25%
Communication	15%	Thinking and Inquiry	30%

30 % SUMMATIVE EVALUTION This will be a final examination based on all material covered in the course.

Student Expectations: In order to be successful in SBI3U all students must:

- 1. Attend class every day:**
If you are absent it is YOUR responsibility to obtain notes from a classmate, catch up on missed work, find out about any upcoming evaluations and see the teacher if you need assistance.
- 2. Arrive to class prepared to work physically and mentally:**
Class time is precious and should not be wasted going to your locker or to the washroom. Make sure you bring the required materials, use the washroom during breaks and are in your seat ready to work when the bell rings.
- 3. Complete and check all homework:**
Homework and assignments are crucial to your success in science because they help to solidify and check your understanding of the topic. Homework and assignments should be completed on the day they are assigned and will be checked, taken up or discussed in class. If you have difficulty with the homework extra help is always available but YOU have to ASK.
- 4. Make arrangements for any missed tests/quizzes.**
If you know you are going to be away on the day of a test (sport/club etc) make sure you make arrangements with the teacher to write the test at an alternate time. For unexpected absences, see the teacher BEFORE CLASS on the day you are back at school. Tests or quizzes missed due to TRUANCY will result in a mark of ZERO.

I understand the above expectations and I am ready to be successful in science:

STUDENT'S SIGNATURE

PARENT'S SIGNATURE



