

**Sir Wilfrid Laurier Secondary School**  
**Biology, Grade 11, University Preparation – SBI3U**  
**1.0 credits**

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**Course Description**

This course furthers students' understanding of the processes involved in biological systems. Students will study diversity of living things, evolution, genetic continuity, internal systems and regulation, and the anatomy, growth, and function of plants. The course focuses on the theoretical aspects of the topic under study, and helps students refine skills related to scientific investigation.

**Strands and Subgroups**

<p><b>Diversity of Living Things</b></p> <ul style="list-style-type: none"><li>• taxonomy and phylogeny</li><li>• prokaryotic versus eukaryotic cells</li><li>• life cycles (including viral)</li></ul> <p><b>Evolution</b></p> <ul style="list-style-type: none"><li>• natural and artificial selection</li><li>• mechanisms for evolution</li><li>• evidence for macro- and micro-evolution</li><li>• speciation</li></ul> <p><b>Genetic Continuity</b></p> <ul style="list-style-type: none"><li>• mitosis and meiosis</li><li>• Mendelian genetics and crosses</li><li>• genetic disorders</li></ul>	<p><b>Internal Systems and Regulation</b></p> <ul style="list-style-type: none"><li>• gas exchange</li><li>• respiratory system</li><li>• circulatory system</li><li>• digestive system</li><li>• fetal pig dissection</li></ul> <p><b>Plants: Anatomy, Growth, and Functions</b></p> <ul style="list-style-type: none"><li>• vascular versus non-vascular</li><li>• root, stem, leaf</li><li>• monocot versus dicot</li><li>• tropisms</li><li>• Hormones</li></ul>
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**Evaluation**

The final report card mark will be determined as follows:

Term Mark	70%
Final Exam and/or Performance Task	30%

## Attendance & Missed Evaluations

Regular attendance is an integral part of learning. Students are responsible for completing all work missed due to absence. Students must complete the missed evaluation immediately upon return to school, during out-of-class time.

End-of-course evaluations, i.e. the summative activities and final examination are time-sensitive. Attendance is mandatory for these evaluations. Any absence for a summative will result in a mark of zero, unless for a family emergency or illness validated by a doctor's certificate. Students with a valid absence will be given a second opportunity to display the expectations covered in the summative.

If a student participates in **academic fraud** (e.g. plagiarism on assignments), he / she is deemed not to have met the expectations associated with that particular evaluation.

A mark of zero will be given for late assignments/labs/projects that exceed the limits as set out in the school policy. (10% deduction per day; mark of zero on fifth day if not handed in)

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## General Course Information

*Students must bring the following materials to each class:*

- textbook
- lab manual
- separate Biology binder (to hold notes, tests, quizzes, handouts)
- pencil case (to hold pencils, erasers, ruler)
- scientific calculator
- lined paper

**Course Text:** **Biology 11**, McGraw-Hill (\$101.00, GST included).

The student will be issued a text, and will be responsible for the cost of replacement, or repair, if the text is lost or damaged.

**Lab Manual:** Supplied to student (\$5.00 replacement cost if lost)

*No food or drink in class.*

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