Sir Wilfrid Laurier Secondary School

Grade 10 Applied Science – SNC2P 1 credit

Course Description

This course enables students to develop a deeper understanding of concepts in biology, chemistry, earth and space science and physics; to develop further their practical skills in scientific investigation; and to apply their knowledge of science to real-world situations. Students will design and conduct investigations into everyday problems and issues related to biological systems, chemical reactions, climate change and the interaction of light and matter.

Strands and Subgroups

Tissues, Organs and Systems	Light and Applications of Optics
 properties and functions of cells 	light and colour
• human systems – respiratory, circulatory,	optical technologies
and digestive	 properties of light and its behaviour in
 dissection (in the lab or computer- 	mirrors and lenses
simulated) of an animal	 types of light emissions
 health problems and technologies used for 	
diagnosis and treatment	
Chemical Reactions	Earth's Dynamic Climate
 household chemicals and WHMIS 	 effects of human activity on climate change
• ion formation	 effects of climate change on living things
 naming binary and polyatomic compounds 	 investigate factors that impact climate
 balancing chemical reactions 	change
 types of chemical reactions 	
 acids, bases and pH 	

Evaluation

The final report card mark will be determined as follows:

Classwork	70%	Summative	30%
Consisting of unit tests, lab activities, projects,		Exam and/or Performance Task	
presentations, and/or other class assignments.			

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 activity and final examination are time-sensitive. Attendance is mandatory for these evaluations. Any absence will result in a mark of zero, unless validated by a doctor's certificate.

If a student participates in **academic fraud** (e.g. plagiarism in 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.

General Course Information

Students must bring the following materials to each class:

- text/workbook will be provided free of charge.
 - **In the event the student loses the text/workbook there is a replacement fee of \$15**
- separate Science binder (to hold notes, tests, quizzes, handouts)
- pencil case (to hold pencils, erasers, ruler)
- scientific calculator
- lined paper
- graph paper

There is no fee for this course. There is a dissection component to the course and students can choose to do a "real" dissection or a "virtual" dissection. The specimens may include a worm, frog, and/or eye.