



# Grade 11: Environmental Science



## Course Outline

**Course Code: SVN 3E1**

**Prerequisite:** Grade 9, Academic or Applied, or a Grade 9 or 10 Locally Developed

**Textbook: Science Wise \$75**

**Instructor: S. Dilorio**

### COURSE DESCRIPTION

This course provides students with the fundamental knowledge of and skills relating to environmental science that will help them succeed in work and life after secondary school. Emphasis is placed on relevant, practical applications and current topics in environmental science, with attention to the refinement of students' literacy and mathematical literacy skills as the development of their scientific and environmental literacy.

### UNITS OF STUDY

Strand	Unit Topic	Key Topics	Sample Issues
1.	The Safe and Environmentally Responsible Worker	Understanding of general workplace safety procedures and environmentally responsible practices	<ul style="list-style-type: none"> <li>Safe laboratory practices and procedures and correctly interpreting WHIMIS</li> <li>Young workers in unsafe working conditions</li> </ul>
2.	Human Impact on the Environment	Understanding of some of the ways in which human activities affect the environment and how the impact of those activities is measured and monitored	<ul style="list-style-type: none"> <li>Analyze the risks and benefits to the environment of human recreational activities</li> <li>Plan and conduct an inquiry to compare soil and water quality</li> </ul>
3.	Human Health and the Environment	Understand the ways in which environmental factors can affect human health and how their impact can be reduced	<ul style="list-style-type: none"> <li>Research significant environmental phenomenon's</li> <li>Various methods in which environmental factors can enter and harm the body</li> </ul>
4.	Energy Conservation	Understand the basic principles of energy production, with reference to both renewable and non-renewable sources, and to various methods of energy conservation	<ul style="list-style-type: none"> <li>Advantages and disadvantages of technological innovations that contribute to the production of renewable energy</li> <li>Interpreting gas/ electric meters and calculating the cost of consumption</li> </ul>
5.	Natural Resource Science and Management	Understand the sustainable use of resources and its relationship to the biodiversity and sustainability of ecosystems	<ul style="list-style-type: none"> <li>Analyze the impact of an environmental contaminant, parasite, or bacteria on the sustainability of a natural resource in Canada</li> <li>Identify and classify a variety of natural resources found in Canada, using appropriate classification systems</li> </ul>

### COURSE EVALUATION

Evaluations will reflect the following assessment breakdown

<b>Knowledge/Understanding</b> Emphasizes the ability to recall factual information, recognize fundamental concepts and the foundational skills of the subject/discipline	<b>25 %</b>
<b>Thinking / Inquiry</b> Emphasizes the use of critical and creative thinking skills and inquiry, research and problem-solving skills and/or processes. It is an opportunity to demonstrate learning through the use of initiating and planning skills and strategies.	<b>25 %</b>
<b>Communication</b> Emphasizes clear, precise and effective expression and organization of ideas and information through the use of oral, written and visual language to communicate the student's understanding of information and ideas	<b>25 %</b>
<b>Application</b> Emphasizes the use of knowledge and skills to make connections within and between various contexts. Students will propose courses of action to deal with problems related to science, technology, society and the environment.	<b>25 %</b>

<b>FINAL EVALUATION</b>	
The final mark will be determined according to this breakdown	
<b>TERM WORK</b> 70 %	Learning will be assessed through work completed during the term, including assignments, quizzes, unit tests, labs and practical work.
<b>CULMINATING TASK</b> 20 %	Learning will be evaluated through a culminating task at the end of the semester which will assess your practical skills and knowledge
<b>EXAM</b> 10 %	Learning will be assessed at the end of the course with an exam lasting 2 hours.

**Our Lady of Mount Carmel S. S.**  
**Science Department**  
**Expectations, Assessment & Evaluation Policies**

---

**Behaviour and Performance Expectations**

- Students should respect their peers and teachers as well as the classroom environment.
- Students should be punctual, prepared for class (with textbook, notebook, pens, pencils, etc) and in full uniform.
- There is no eating or drinking in the science laboratory.
- Students are expected to work cooperatively on activities, assignments and lab reports. If individual reports are required, "carbon copies" are not accepted. All reports must be referenced in APA format. Plagiarism will not be tolerated and will result in a mark of zero.

**Lab Behaviour Expectations**

- Students must be well versed in science safety
- Students must be prepared to do the laboratory activity (i.e. students have read the lab and completed any pre-lab assignment)
- Working in the lab is a privilege. This privilege can be lost and will result in lost marks. Students should follow instructions carefully, follow all safety rules and keep their work area clean.

**Attendance**

Regular attendance, keeping up to date with regular classroom and homework assignments is an essential component of success in this course. ***Students are responsible for the work they miss while absent including homework, assignments and laboratory results.***

Enter the names and phone numbers of a classmate to call when you are absent.

Friend: \_\_\_\_\_ Phone Number \_\_\_\_\_

**Test, Quiz and Assignment Policy**

Students must adhere to the Our Lady of Mount Carmel "Achieve your Best" policy for test/quiz dates and assignment deadlines.

**Progress Reports**

A progress report will be issued to each student periodically during the semester. Parents/guardians are asked to sign the report and are invited to comment. If you have any questions or concerns please contact the classroom teacher at any time during the semester at extension 68019.

**Textbook Policy**

Textbooks are on loan to the student for the duration of the semester. They will be collected on the day of the final exam. A replacement cost of \$75 will be collected for any textbook that is lost or NOT returned in the same condition it was distributed.

I \_\_\_\_\_ (student's name) have read the Science Department Policies on Expectations and Assessment and Evaluation and have shared the information with my parents/guardians.

\_\_\_\_\_  
Student's signature

\_\_\_\_\_  
Parent/Guardian's Signature