



CENTENNIAL REGIONAL HIGH SCHOOL

COURSE OUTLINE 2020-2021

Subject: Environmental Science and Technology (EST)

Level: Cycle 2, year 2

Course Description and Objectives:

The Environmental Science and Technology program creates a single discipline by integrating five scientific fields (chemistry, physics, biology, astronomy, geology) and various technological fields.

The Environmental Science and Technology program is aimed at helping students develop basic scientific and technological literacy that should be within everyone's reach. Students will be encouraged to gradually build on this basic knowledge, to make them aware of how it can improve their ability to make informed decisions and to have them discover the enjoyment that can be derived from the study of science and technology.

This course is a prerequisite for Chemistry and Physics in Secondary V. This course is taken in conjunction with the Science and Technology course.

Course Content:

Material World – chemical changes, electricity, electromagnetism, energy, fluids, forces, etc. Living World – dynamics of ecosystems
Earth and Space – lithosphere, hydrosphere, atmosphere, space, etc.
Technological world – graphical language, mechanical engineering, electrical engineering, material, etc.

Evaluation:

The program focuses on the development of two interrelated competencies associated with various complementary aspects of science and technology.

The two competencies to be further developed in secondary cycle two, year two are as follows:

- Seeks answers or solutions to scientific or technological problems
- Makes the most of his/her knowledge of science and technology

Safety glasses or goggles are required for laboratory work. (School will provide 1 set per laboratory)