



CENTENNIAL REGIONAL HIGH SCHOOL

COURSE OUTLINE 2020-2021

Subject: Biology 544

Level: Secondary 4 TAG

Course Description and Objectives:

Senior Biology is an introduction to cellular processes and biotechnology. It integrates these into the environment. Biology emphasizes research techniques and critical thinking about current events.

The Senior Biology program is aimed at helping students develop basic scientific and technological literacy that should be within everyone's reach. Students will be encouraged to strengthen their team work as well as gradually building their autonomy in learning. This will be used to improve their ability to make informed decisions, to think outside the box and discover the enjoyment that can be derived from the study of Biology.

This course is an introduction to the CEGEP Biology in the health and pure and applied science programs Course Content:

- Characteristics of living things
- Biomolecules
- Cell structures and functions
- Energy and the cell
- DNA structure, replication and protein synthesis
- Cellular reproduction and Genetics
- Population Biology and
- Evolution Structure and
- function of plants
- Environment

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 one 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)