NOTE **A COURSE OUTLINE SUPPLEMENT WAS DISTRIBUTED IN YOUR MATH CLASS WITH INFORMATION PERTINENT TO ALL COURSES.**

Course ADVANCED BIOLOGY – BIO504

Level Cycle 2 year 3, secondary 5

Course Description and Objectives

The students taking advanced biology will gain an appreciation for the living things around them. Several branches of biology will be studied to give the student an overview of the science: taxonomy, microbiology, botany and zoology to name a few. Through experimentation and research, students will learn to appreciate the simplicity and complexity of living organisms. Students will learn about evolution and adaptations explore how

Broad Areas of Learning

The broad areas of learning are described on the course outline supplement.

Cross-Curricular Competencies

The cross-curricular competencies are described on the course outline supplement.

Course Topics

What is Life? :	What is a living thing? biogenesis, characteristics, classification, origin of life
Exploring the 6 kingdoms:	What are the living things around us? Simplicity and complexity microbiology, botany and zoology
Evolution and Adaptation:	Where were we? Where are we going? fossils, Darwin, biodiversity climate change/pollution

Assessment

General information and attendance requirements for all courses are described on the course outline supplement. The table below describes the specific competencies and the relative weighting for this subject.

Competency	Description	Weighting
1. Seeks answers or solutions to scientific problems.	Focuses on the methodology used to solve scientific problems. The student becomes familiar with concepts and strategies using a hands-on approach. Students must ask questions and solve problems through observation and laboratory experimentation.	20%
2. Makes the most of his/her knowledge of science	Focuses on the student's ability to conceptualize and apply what they have learned in science. It involves examining the very nature of scientific knowledge, its evolution and its numerous societal and environmental consequences.	50%
3. Communicates in the languages used in science.	Participates in exchanging scientific information. Interprets scientific messages. Produces and shares scientific messages.	30%

Note

Goggles are mandatory for all laboratory work.