



GRADE 11 BIOLOGY COLLEGE PREPARATION Course Outline



Course Code: SBI 3C
Prerequisite: GR.10 SCIENCE

Textbook:
Instructor:

COURSE DESCRIPTION

This course highlights the processes that occur in biological systems. Students will learn concepts and theories as they conduct investigations in the areas outlined below. Emphasis will be placed on the practical application of concepts, and on the skills needed for further study in various branches of the life sciences and related fields. This course will prepare students for entering science related programs at the college level in post-secondary school.

UNITS OF STUDY

Strand	Unit Topic	Key Topics	Sample Issues
1	CELLULAR BIOLOGY	Environmental impact on cell processes, medical technologies, biomolecules,	UV exposure and cancer Using nanotechnologies Insulin pump therapy
2	MICROBIOLOGY	Diversity of microorganisms, their effects in the environment, physical characteristics, symbiotic relationships	Use in Biotechnology Drug-resistance Use of antibacterial agents
3	GENETICS	Heredity, meiosis, DNA, reproductive technologies, social and ethical implications	Designing genetically enriched babies, GMOs, patenting genes
4	ANATOMY OF MAMMALS	Digestive, respiratory, circulatory systems, diagnostic technologies	Use of artificial blood, exercise and diet, Use of medical devices
5	PLANTS IN NATURAL ENVIRONMENT	Plant structure and physiology, role of plants in ecosystems,	Biodiversity, native plants, effect of human activities on natural balance of plants

COURSE EVALUATION

Evaluations will reflect the following assessment breakdown

Knowledge/Understanding Emphasizes the ability to recall factual information, recognize fundamental concepts and the foundational skills of the subject/discipline	25 %
Thinking / Inquiry Emphasizes the thinking skills used in thinking processes to demonstrate the student's understanding of information they have processed. This often includes labs and lab skills	35 %
Communication Emphasizes the clear, precise and effective use of oral, written and visual language to communicate the student's understanding of information and ideas	15 %
Application Emphasizes the application and integration of knowledge, skills, processes and techniques to produce evidence of the student	25 %

FINAL EVALUATION

The final mark will be determined according to this breakdown

TERM WORK 70 %	Learning will be assessed through work completed during the term, including assignments, quizzes, unit tests, labs and practical work.
CULMINATING TASK 15 %	Learning will be evaluated through a culminating task at the end of the semester which will assess your practical skills and knowledge
EXAM 15 %	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

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 two classmates to call when you are absent.

Friend: _____ Phone Number _____

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.

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