

## CLOC Course Outline

<b>Course Name</b>	<b>Biology 11</b>
<b>Teacher</b>	<b>Caroline Lennan</b>  See 'CLOC Course Pacing and Completion Policies' below.
<b>Course Format</b>	<b>Self-Paced</b>
<b>Teacher Contact Information &amp; Schedule</b>	<a href="mailto:clennan@sd43.bc.ca">clennan@sd43.bc.ca</a> 604-945-4211 <b>Tuesday 10:00am-2:00pm; 5:00pm-9:00pm</b> <b>Thursday 10:00am-2:00pm; 5:00pm-9:00pm</b>
<b>Learning Centre Hours</b>	<b>Monday-Thursday 10:00am-2:00pm</b> <b>Monday-Thursday 5:00pm-9:00pm</b> The Learning Centre is closed on all statutory and school holidays.

*Coquitlam Learning Opportunity Centre*

# BIOLOGY 11

## INTRODUCTION

Biology 11 is the study of living organisms and life processes. The content of biology is the facts, concepts, principles, and theories resulting from careful observation of the living world. Biology 11 provides an overview of living things. It surveys a sample of organisms and introduces you to a variety of biological concepts and scientific processes.

## PRESCRIBED LEARNING OUTCOMES

### Taxonomy:

B1 *apply the Kingdom system of classification to study the diversity of organisms*

### Evolution:

C1 *describe the process of evolution*

### Ecology:

D1 *analyse the functional inter-relationships of organisms within an ecosystem*

### Microbiology:

E1 *evaluate the evidence used to classify viruses as living or non-living*

E2 *evaluate the effects of viruses on human health*

E3 *analyse monerans as a lifeform at the prokaryotic level of organization*

E4 *evaluate the effectiveness of various antibiotics, disinfectants, or antiseptics on bacterial cultures*

### Plant Biology:

F1 *analyse how the increasing complexity of algae, mosses, and ferns represent an evolutionary continuum of adaptation to a land environment*

F2 *analyse how the increasing complexity of gymnosperms and angiosperms contribute to survival in a land environment*

### Animal Biology:

G1 *analyse how the increasing complexity of animal phyla represents an evolutionary continuum*

- G2 *analyse the increasing complexity of the Phylum Porifera and the Phylum Cnidaria*
- G3 *analyse the increasing complexity of the Phylum Platyhelminthes, the Phylum Nematoda, and the Phylum Annelida*
- G4 *analyse the increasing complexity of the Phylum Mollusca, the Phylum Echinodermata, and the Phylum Arthropoda*
- G5 *relate the complexity of the form and function of vertebrates to the evolutionary continuum of animals*

## **LEARNING RESOURCES**

Text: Biology (Miller–Levine)

The textbook contains far more information than is required for credit in Biology 11. The concepts to be mastered in each unit and the corresponding page references are listed in each unit assignment. These assignments will be very useful to you in focusing your study and determining your readiness for the individual unit tests.

## **BIOLOGY 11 at Coquitlam Learning Opportunity Centre**

Biology 11 at Coquitlam Learning Opportunity Centre is a self-paced, self-directed course. You will be expected to work independently and to manage your time productively. If needed, individual help is available from an instructor at the Learning Centre.

An important element for success in Biology 11 will be your study skills. Successful students establish a study schedule and stick to it. One of the best ways to learn new concepts and vocabulary is with flash cards. Write each new word on one side and its meaning on the other. Do the same with concepts and diagrams. There is a glossary at the back of the textbook and vocabulary lists in each chapter review to help you create your flash cards. In addition, you should take detailed notes on all material listed in the individual unit assignments.

## **EVALUATION**

Evaluation in Biology 11 includes unit tests, midterm tests, and a final exam. ONE REWRITE will be available for each unit test. There are NO REWRITES for the midterm tests or the final exam. The tests will be weighted as follows:

<b><u>TEST</u></b>	<b><u>CONTENT</u></b>	<b><u>PERCENT</u></b>
Unit 1	Classification	5
Unit 2	Adaptation and Evolution	5
Unit 3	Viruses, Kingdom Monera	4
Unit 4	Kingdom Plantae: Algae, Mosses, Ferns	4
Unit 5	Kingdom Plantae: Gymnosperms, Angiosperms	4
Midterm #1	Units 1–5	14
Unit 6	Kingdom Animalia: Porifera, Cnidaria	4
Unit 7	Kingdom Animalia: Platyhelminthes, Nematoda, Annelida	4
Unit 8	Kingdom Animalia: Mollusca, Arthropoda, Echinodermata	4
Unit 9	Kingdom Animalia: Fish, Amphibians, Mammals	4
Unit 10	Ecology	4
Midterm #2	Units 6–10	14
Final Exam	Units 1–10	30
		100

## **CLOC Course Pacing and Completion Policies**

- 1. Students are expected to complete all self-paced, flexible and online courses within a 10 month period.**
- 2. Students are expected to complete 10% of course material within the 1<sup>st</sup> month after registration.**
- 3. A final mark will be assigned to all students who complete at least 65% of the course requirements.\***

Our teachers can help you determine a pace that works for you and fits within these expectations. Please discuss your course completion plan with them.

If you plan to take two self-paced courses, we recommend that you stagger the registration dates so that you get one course started before enrolling in the second course. We do not permit taking more than two courses at the same time without discussing this with our administrator.

If you have extenuating circumstances that make these timelines challenging, please have a conversation with your teacher, or our CLOC administrator, 604-945-5211.

*\*65% of course requirements does not include comprehensive final exams.*