

Life Sciences 11

Learning Outcomes: The activities in this course are based on the core competencies and curricular competencies as provided by the Ministry of Education of BC and will introduce students to three key ideas: Life is a result of interactions at the molecular and cellular levels, evolution occurs at the population level, and organisms are grouped based on common characteristics.

View the complete Ministry of Education learning outcomes for this course: [Life Sciences 11](#)

Resources: All resources are provided within the course. Students will need good access to the Internet and will be required to use online tools.

Exams: All exams and quizzes require a password and are to be invigilated by a teacher at your school or an approved testing center. Exams may be rewritten if needed. Pay attention to the number of marks a question is worth. Be sure to include enough detail to earn all the marks. Exams may cause anxiety for some students. See your teacher for study skills if necessary.

Communication: Assignments are submitted directly through your course. Constant communication with your teacher is key to success in a DL course. Phone or email or message your teacher for help whenever necessary.

Goal Setting: This course is self-paced and self-directed. Students should plan on working 5-6 hours a week on this course. It is highly recommended that the student creates a calendar of monthly, weekly, and even daily goals. Contact your teacher if help is needed doing this.

Learning Guides/Projects: Print out unit learning guide, complete and upload in pdf form. Once mastered, select and complete a unit project, then upload in pdf form. Please ensure these are neat and organized. Learning guides must be submitted before writing unit exams.

Unit 1: Introduction

- The study of life
- The scientific method
- What is a cell?
- Introduction to evolution

Unit 2: Cells

- Cell structure
- Differences between cells
- Respiration
- Photosynthesis

Unit 3: Viruses

- Structure and function
- Reproduction
- Preventing viral diseases

Unit 4: Evolution

- What is Evolution?
- Evolutionary change
- Macroevolution
- Role of DNA

Unit 5: Taxonomy

- Organization of Taxons
- Important Groups

Unit 6: Plants

- Introduction to Plants
- Non-seed bearing plants
- Vascular plants with seeds
- Gymnosperms
- Angiosperm

Unit 7: Simple Organisms

- Porifera
- Cnidaria
- Flatworms
- Roundworms
- Segmented Worms

Unit 8: Advanced Organisms

- Mollusks
- Echinoderms
- Arthropods
- Chordates
- Vertebrates

Assessment

Assessments and Final Exam

*all supervised exams must be written at your school or an approved testing center.

This 4-credit course will be broken down as follows:

Learning Guides – 10% of the overall grade.

Projects – 30% of the overall grade.

Unit Exams – 30% of the overall grade.

Final Exam – 30% of the overall grade.