

LIFE SCIENCES 11

Credits: 4

Purpose: Students are given the opportunity to develop their skills and gifts by equipping them with knowledge of creation through studying the diversity of organisms and nurturing a Christian worldview which we use to study them. The four themes selected for Life Sciences 11 are: worldviews, adaptation and change; unity and diversity of living organisms; and ecological relationships. This course follows the Ministry of Education IRP.

Outline:

- Introduction to Life Sciences
- Microbiology: Viruses, Bacteria, and Protists
- Mycology: Fungi
- Plant Biology: Algae, Mosses, Ferns, Gymnosperms, and Angiosperms
- Animal Biology: Invertebrates, and Vertebrates
- Worldviews and Creation
- Adaptation and Change: Evolution and Genetics
- Ecology

Skills Developed: The skills and processes students use and develop in Life Sciences 11 are: observing, measuring, classifying, inferring, predicting, communicating, hypothesizing, controlling variables, interpreting data, critical thinking, use and care of a microscope, research skills, and formulating models.

Assignments: This course emphasizes lab work and research. Students can expect many labs and quizzes with the focus being dissections and observation of living organisms.

Expected Homework: 2 hours on average per week

Materials Required: a binder, lined paper, pencil, pen

Prerequisites: Science 10 (SC 10) and Math 10