

Biology General

Year 11 Course Code	GEBIOL
Year 12 Course Code	Year 12 Course is not offered in 2023 but will be offered in 2024
Highly Recommended	Year 11: C grade in Year 10 Science Year 12: C grade or higher in Year 11 Biology
Cost	\$60.00 (cost is approximate – subject to change)

Year 11 Overview

In this course students investigate the cell as the basic unit of living systems, and how organisms solve problems to survive. The course provides opportunities for students to develop an understanding of important science concepts and processes, the practices used to develop scientific knowledge, of science's contribution to our culture and society, and its applications in our lives. The course supports students to develop the scientific knowledge, understandings and skills to make informed decisions about local, national and global issues.

Through this course, students can become questioning, reflective and critical thinkers about biological issues. Biology highlights the importance of reasoning and respect for evidence. Students consider different perspectives on ethical, environmental and sustainability issues. This process enables students to use evidence to make informed judgements and decisions about controversial biological issues that directly affect their lives and the lives of others.

Year 11 Course Structure

Unit 1 – Classification and cell processes

This unit explores the diversity of organisms and how scientists make sense of the natural world. Microscopic activities of cells provide students with first hand opportunities to explore a world not usually observed. Many everyday applications can be explained and explored through the understanding of cell processes, such as fermentation and plant growth. A deep understanding of a local area is complemented by collection and preservation of specimens and the use of classification keys.

Unit 2 – Solving problems to survive

This unit explores ways in which animals and plants exchange and transport materials between the internal and external environment. Through practical activities, students will study specialised structures and systems used for gas exchange, obtaining nutrients, removal of wastes and transport of materials, in a wide a range of animals and plants. Investigations will be conducted into adaptations in terrestrial and aquatic environments. These will involve visits to local ecosystems, herbariums, museums, parks or zoos.