

Science Faculty

BIOLOGY

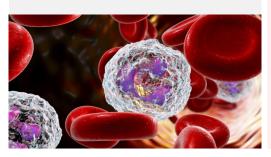


COURSE OUTLINE

Biology is one of the STEM subjects offered at Holsworthy High School. This course provides students with the opportunity to learn about variations in the structures and functions of organisms and provides an understanding of the effects of the environment on living things. Students investigate reproduction, inheritance patterns and the causes of genetic variation. Applications of this knowledge in biotechnology and genetic technologies are explored.

Year 11 has 4 modules:

- Cells as the Basis of Life
- Organisation of Living Things
- Biological Diversity
- Ecosystems Dynamics





HSC has 4 modules

- Heredity
- Genetic Change
- Infectious Disease
- Non-infectious Disease and Disorders

Both years must include a depth study in one module

ASSESSMENT

Both Year 11 and Year 12 follow the same assessment pattern of just 3 tasks.

- A Yearly Exam worth 30%.
- A practical task adds another 30% and
- A Depth Study the remaining 40%.

Pattern of Study

Biology can be studied with Chemistry and Physics. Studying Biology with Geography and PDHPE can be beneficial as there is some shared content in these courses that can improve students understanding of some concepts.

ATAR

Biology is a full 2 unit Science course. It can be advantageous for students seeking maximum ATAR scores to include Biology in their pattern of study.







Practical Work

There is mandatory field work in Year 11. Mandatory hours of practical work must be completed in both Year 11 and Year 12.

Why study Biology?

Australia's Chief Scientist told the Federal Parliament, "Science is infrastructure and it is critical to our future. We must align our scientific effort to the national interest; focus on areas of particular importance or need; and do it on a scale that will make a difference to Australia and a changing world." His paper, STEM: Australia's Future focuses on:

- Building competitiveness
- Supporting high quality education and training
- Maximising research potential
- Strengthening international engagement

Biology is a 2unit Science course that satisfies recommended studies requirements of many university courses. It is very popular, one of the biggest courses in NSW.

Studying Biology leads to a broad range of career options :

- Medical
- Sports & Human Movement
- Environmental
- Agricultural
- Biotechnology
- Animal work
- Horticulture
- Genetics

SCIENCE FACULTY

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Mr K. MacDonald Mr S. Fernadez
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Mr J. Lian